

then has plenty of spare time: on smaller plants he usually has charge of the engine.

Each single retort is capable of producing 180 cubic feet of gas per hour without forcing.

One ton of wood gives 25,000 cubic feet of gas, and about 400 pounds of charcoal.

The 1,000 cubic feet of gas, with wood at \$3.00 per ton and without allowing any value for the charcoal, costs fourteen cents per 1,000 cubic feet.

The one-hour horse power is obtained at a half cent and at a consumption of about six pounds of wood.

A gas engine consumes, approximately, about thirty-five cubic feet of gas per hour per horse power.

To many uses is the gas Riche being applied to-day in Europe and South America, and that it is a success is in its being erected by the largest users of coal, every day new plants being put down.

The largest company of Emery, in France, do the driving of all their machinery by means of it, besides the drying and cooking of their products, also many electrical companies derive their motive power by its means at a cost unheard of.

Owing to its high calorific power it is used for all kinds of drying and heating purposes, and is largely used for smelting iron and other metals, and in the manufacture of china it is used for the cooking of same.

Due to its composition, alone it does not serve for illuminating purposes, but by

means of the incandescent wicks an extremely brilliant flame is produced at a mere nominal cost.

When you take into consideration the high price of coal gas, viz., \$1.00 per 1,000 cubic feet, and the low price of gas Riche, the gain is apparent, and also the low price that the horse power can be obtained by means of this gas.

From the above short description of wood gas I hope I have shown to my readers how to-day, from that plentiful and cheap material—wood—in its many forms, a gas may be made which produces to them their motive power, heat, and light at a price unheard of, and a process in whose working there is no need of skilled labor, it being simplicity itself.

Paper Mills and Pulp Mills

And all Users of ENDLESS FELTS get the

Best Value by ordering from

Hamelin & Ayers,

LACHUTE MILLS, QUE.

We are now prepared to make all grades, from the finest Bristol Board to the coarsest Sulphide Fibre. With our 24 looms, and all other machinery to match, we are in a position to fill all orders promptly.

When ordering state kind of Paper or Board made, and speed of machine.

You will not be asked to pay for Felts that are not satisfactory. Every Felt is tested in our factory, and is shipped with our guarantee.

CAPACITY 1,000 SQUARE YARDS DAILY.

ADDRESS

HAMELIN & AYERS, Lachute Mills, Quebec, Can.

CHARLES F. CLARK, President.
JARED CHITTENDEN, Treasurer.

Established 1849.

BRADSTREET'S

Capital and Surplus, \$1,500,000

Offices Throughout the Civilized World.

EXECUTIVE OFFICES,

346 & 348 Broadway, New York City, U.S.A.

Correspondence Invited.

Toronto Office, - Cor. Jordan and Melinda Sts.
Hamilton " - 39 James Street South.
London " - 365 Richmond Street.
Winnipeg Office, - 398 Main Street.
Vancouver " - Cor. Hastings and Hamilton Sts.
Victoria " - Board of Trade Building.

THOMAS C. IRVING, Gen'l Manager Western Canada,
TORONTO.

F. W. Kore's Sons, HAMILTON, ONT.
Manufacturers of
Wheels, Wheel Materials, Shafts, etc.

The Underwood Typewriter



Visible Writing from
start to finish.

The descriptive pamphlet, or any stenographer using the Underwood Typewriter, will explain why 1,000 of these machines have been sold in Canada in one year—more than all others put together.—Visible writing and the tabulator are winners.

SOLE CANADIAN AGENTS.

Creelman Bros. Typewriter Co.,

15 Adelaide St. East, TORONTO, ONT.

Shafting—Hangers—Pulleys

FRICITION CLUTCH PULLEYS AND COUPLINGS

Rope Transmission of Power.

HANDSOME ILLUSTRATED CATALOGUE ON APPLICATION.

DODGE MANUFACTURING CO. OF TORONTO, Limited, - - TORONTO.

When writing to Advertisers kindly mention THE CANADIAN MANUFACTURER.