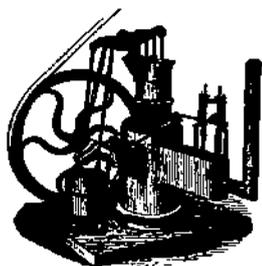


“PRINTERS’ PET.”

# Roper Caloric Engine.



300 Printers using this New Style Upright Engine.

Its use and adaptation for all purposes where small motive power is required, to wit: Driving Printing Presses, Lathes, Pumping, Sawing, Elevating, Crushing Sugar, Carrying Shoe-Manufacturing Machinery, Donkey Pumps, Railroad Depot uses, Domestic and Farm Purposes; in short, all sorts of Mechanical Works, too numerous to mention.

We think we have overcome the objection to all other Air Engines, and after seven years experimenting, have accomplished what never has been before, though often attempted, viz: **Constructed an Air Engine** similar to a Steam Engine, running smoothly and with as little noise, and under a reserve power with a constant pressure.

We are now manufacturing three sizes, 12-inch cylinder, 12-inch stroke, or 1-horse power; 16-inch cylinder, 16-inch stroke, or 2-horse power; 24-inch cylinder, 24-inch stroke, or 4-horse power; rated same as steam, and warranted to be fully up to the power claimed. Their usual revolution is 90 per minute. Runs very smooth, even, and uniform with a governor. On building a fire they can be put in motion in five minutes, after which they can be stopped or started at once.

The 1-horse engine consumes 40 lbs. of coal per day; the 2-horse 75 lbs., and 4-horse 120 lbs. of coal per day, thus costing, with coal at \$12 per ton (highest rate), 30c., 51c., 96c., at the utmost for fuel per day, so that we have the most economical engine now in use.

The exhausted air can be carried in pipes and drums to any extent before entering the flue, and thus heat a building, so that little or no fire is required in the coldest weather, or it can be thrown at once into the flue, and little heat experienced.

For all purposes where a small amount of power is required we claim that we have the simplest, safest, and most economical Engine yet invented, and have about a thousand in use, many of them for six years.

*From Munn & Co., Scientific American.*

The most perfect form of Air Engine with which we are acquainted is that known as the Roper Caloric Engine. This engine should not be confounded with other air engines. One great improvement is a governor or regulator (late invention), which is so constituted as to enable the engine to run from 40 to 120 revolutions per minute as required.

We have examined several of these engines driving different machinery, very successfully, of one, two, and four-horse power, and by inquiry we find the amount of coal used is about 40 lbs. per day for a horse power, and that the engines fully show amount of power claimed.

*From M. & E. Griffith of the Albany Post.*

ALBANY, N. Y., Jan. 15, 1869.

C. H. CROSBY, President Roper Caloric Engine Co.—*Dear Sir:* In answer to your questions we would say, that we have used Roper's Hot Air Engine, 1-horse power, for over three years; find it easily kept in order, entirely free from danger, and prefer it to all other engines. We would not use a steam engine if one was given to us. We use the engine every afternoon; keep fire five hours. We burn coke in it; price of same per week about \$1.

What it cost for one good cigar will keep our Roper Engine running for five hours.

REPORTER OFFICE, LYNN, MASS.,

February 13, 1869.

C. H. CROSBY, President—*Dear Sir:* I have used a small Roper Engine upwards of a year and a half, running one large power press for newspaper work. It has given perfect satisfaction, and I could not do without it. The cost of running it is about 20 cents per day.

I have no hesitation in recommending the engine for light work. It has cost but a trifle for repairs, and a boy cures for it, taking but a small portion of his time. It is a saving to me of at least \$300 per year. Yours truly,

P. L. COX, Publisher *Lynn Reporter*.

NEW YORK, Jan. 25, 1869.

C. H. CROSBY, President—*Dear Sir:* We have had one of the Roper Hot Air Engines of 2-horse power in use since Oct. 1, 1858, and so far have been well satisfied. We are running one Campbell super-royal job press, one Gordon quarto, and two Gordon card presses, and yet have no occasion to drive or crowd the engine in the least. On the contrary, we have power to spare. Our engine burns about 1-2 tons of coal per month, but we keep the fire going constantly for the purpose of heating our office (40x48), thereby saving the trouble and expense of a stove. From our experience with it, we feel satisfied that, if kept in good order and properly attended, it will give entire satisfaction where only small power is required.

Respectfully yours, CROSBY & Co.,  
Printers and Engravers, 225 Fulton St.

NEW YORK, 106 William St., March 16, 1869.

ROPER CALORIC ENGINE CO.: We have been running one of your 2-horse power engines about 6 years in our Printing office. We have a long line of shutting, and run 1 double super-royal, 1 Taylor, 1 single super-royal, and 2 Gordon presses. No money could buy our engine if we could not procure another of the same kind. We cannot commend it too highly for printers' use. It is all and more than is claimed for it. Respectfully,

RANDEL & BLOEMEKE, Printers.

NEW YORK, March, 16, 1869.

ROPER CALORIC ENGINE CO.: We have had in use one of your 2-horse power engines about 4 years. We drive medium, double medium, and one Gordon press. Use about 70 lbs. of coal per day; repairs very small; engine runs quiet and pleases us every way. It is an excellent power for printing. Yours respectfully,

R. C. ROOT, ANTHONY & Co.

Prices \$550, \$750, and \$950.

Address

GEO. P. ROWELL & CO., Advertising Agents,  
and Dealers in Printers' Materials,  
40 Park Row, New York.