



INGERSOLL-RAND INTRODUCES

A NEW TOOL FOR TERMITE WORK

ONE of the problems in termite control work has been the difficulty of drilling through concrete or other masonry to flood the area adequately with chemicals. Wood boring has been relatively quick and easy; but drilling to hidden beams, sills, or ground through cinder block, cement, pebble-dashing, or tile has usually been a major operation. The operation is hard, tedious, and time-consuming.

The new Ingersoll-Rand electric Impactool makes the job of masonry drilling easy. With the tool running a carbide bit, it is claimed holes can be drilled in less than half the usual time and with very little effort, because of the unique impact principle on which the tool operates. It is reported that on one job, drilling through extra hard 4" concrete took one minute per hole with the impact tool, while an ordinary electric drill and carbide bit, took three to five minutes per hole. Other labor

costs were also reduced. One man was able to handle the impact tool alone; two men were required to obtain adequate pressure with a conventional electric drill.

Since the Impactool runs on 110 volt AC or DC current it can be plugged into any convenient electric socket. Here's the way it works. Pressing the trigger sets the spindle revolving and the tool operates like any conventional electric drill until resistance to turning is met. Then a patented spring-hammer-anvil mechanism automatically goes into action and releases hundreds of powerful rotary impact blows to the work, thus providing the extra power necessary to turn the bit. When drilling brick, cinder block, concrete, tile, or other material which is especially resistant, the electric impact tool is said to give a more powerful turning effect than is produced by any other type of electric tool of comparable size. Since the motor is reversible, the

drill can be quickly backed out of the hole when the job is finished.

An additional impact tool feature is that the worker does not tire easily. There is no torque reaction transmitted to the handle, to induce operator fatigue. This feature, combined with streamlined design, enables the operator to use the tool in confined spaces or work close to side walls.

Since the impact tool drills quickly and runs easily the PCO can handle more jobs per day.

Although the impact tool's greatest usefulness to pest control operators is in its powerful rotary impacts which enable it to readily tackle tough jobs, a further feature is its low maintenance cost, which is particularly important when the tool is used for continuous drilling. It is designed and built so that the motor continues to run even if the spindle should stall completely. This tends to eliminate motor burn-out, ex-

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ting approval for structural changes to be financed by FHA, write the Federal Housing Administration, Washington 25, D. C., and ask for its free booklet No. FH-30-A, Revised October 1947, entitled, "Dealers, Here's How to Make Sales and Satisfied Customers with FHA Title 1 Loans."

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pensive repairs, and the loss of the tool while out of service for repairs.

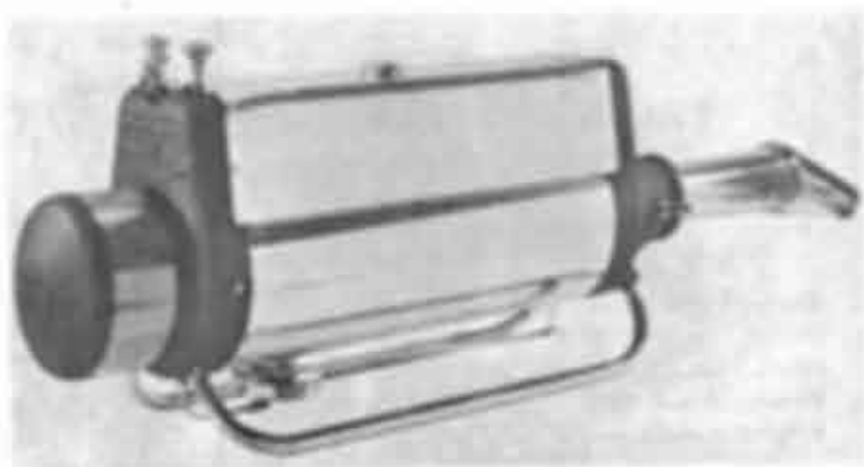
While the impact tool is used in termite control mainly for drilling or wood boring, it can be used for a variety of other operations. It is an all-purpose tool, available in two sizes. With standard accessories the Size 8U will drill steel up to $\frac{3}{8}$ " diameter or step-drill to $\frac{3}{4}$ " diameter (in addition to drilling masonry up to $\frac{5}{8}$ ", and boring wood up to $1\frac{1}{4}$ ".) It will run nuts, extract broken cap screws and studs, and drive and remove studs up to $\frac{5}{8}$ " bolt size. It will also do tapping from $\frac{3}{8}$ " to $\frac{3}{4}$ ", drive machine screws up to $\frac{5}{8}$ " and wood screws up to No. 22, do hole saw work up to 2", and run wire brushes up to $\frac{1}{2}$ " shank. The Size 8U tool weighs 9 pounds, 14 ounces, and the smaller Size 4U model, rated up to $\frac{3}{8}$ " bolt diameter, weighs only $6\frac{1}{2}$ pounds.

With hard work removed from masonry drilling, and at least 50% of the time saved doing this job, it is found that the new impact tools are greatly simplifying and making more profitable the job of termite control.

Impatools are manufactured by Ingersoll-Rand Company, 11 Broadway, New York 4, New York.

Short Course for Pacific PCOs

Pest control operators in the Pacific-Northwest will have an opportunity to attend a short course especially designed for them. It is to be held at Oregon State College, Corvallis, Oregon, on April 17, 18 and 19. PCOs from the states of Washington, Oregon and Idaho are especially urged to attend. Further information can be obtained from Dr. D. C. Mote, department of entomology, Oregon State College.



The new Acromarine Dyna-Fog

Dyna-Fog Is New Jet Fog Generator

A new insecticidal fog generator, called the Dyna-Fog, is available for the 1948 season according to news just received from its manufacturer, the Acromarine Company, Vandalia, Ohio.

Weighing only 100 lbs., the Acromarine Dyna-Fog is operated by a 100% Jet engine which has but three moving parts. One moving part is in the engine and it is said this part can be replaced about as economically and easily as the spark plug of an ordinary gas engine. The other two moving parts are pulsating valves used in pumping fog oil. Low maintenance cost is the result, it is claimed.

Capable of fogging up to 40 gallons of oil per hour, W. L. Tenney, president of the company, reports the Dyna-Fog can produce at least as large a volume of dense fog as any competitive machine on the market. He says the relatively small size of the machine, its light-weight and portability enable the PCO to transport it in the same truck or jeep used for general operations, or remove it from the vehicle when not in use.

A pulsating jet system of fog generation enables the generator to produce a fog of uniform particle size and one that gives low exposure of the insecticide to heat. The combination fog-oil and insecticide solution is pulverized into extremely fine particles by the shaking and scrubbing action of ultra-high velocity, violently high-frequency pulsating jet gases, an action which requires less heat to

produce fog. The action of jet gases on the formulate moves at sonic velocity and reverses their direction of flow 40 to 80 times per second to produce the pulverization of the formulate into fine, even particles.

Fog particle size is controllable between 0.5 microns, suitable for the dryest, finest indoor type fogs, and 75 microns or larger to produce wet fogs for use on dumps, swamps, etc. The company says both uniformity of particle size and freedom from heat breakdown of insecticide have been demonstrated in laboratory tests.

Although the machine can produce up to 40 gallons of oil per hour, a considerably lower rate is utilized during general operations, it is said.

The Acromarine Dyna-Fog has been subjected to extensive field tests during the 1947 season by being used in commercial pest control operations by PCOs. Success of last season's experience sped up the production of the machines so that sufficient quantities will be ready for the 1948 season. Acromarine says attractive distributor territories still remain open.

Second Son For Brahms

Since the news came to us through the clothes line, we don't have the exact statistics, but W. L. Brahms, a Purdue PCO student, became the father of his second son sometime early in December last year. Bill, whose family lives in a West Lafayette, Indiana, housing project, is the son of PCO G. S. Brahms of Philadelphia.