

AIRLESS



WHEELABRATOR

*A Most Amazing and Entirely New
Method of Abrasive Cleaning
Replaces Sand Blast*

AMERICAN FOUNDRY EQUIPMENT COMPANY
MISHAWAKA, INDIANA

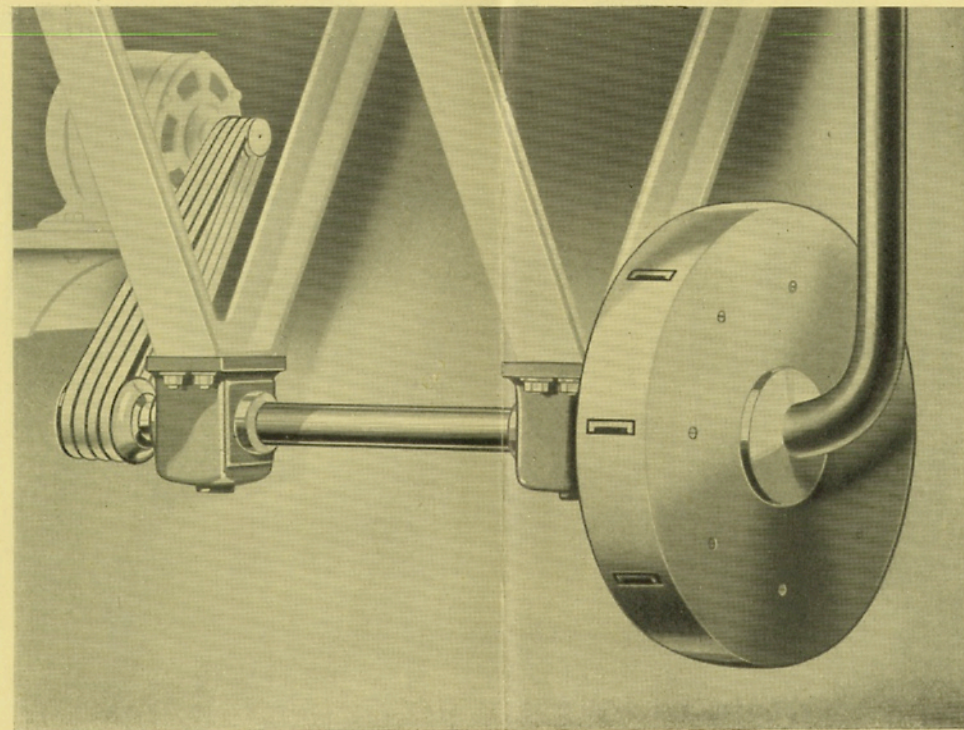
. . . *Airless* . . .

WHEELABRATOR

The Simplest and Most Efficient Cleaning Device Ever Operated

The American AIRLESS WHEELABRATOR brings to all metal working industries a new and revolutionary method of cleaning. It not only replaces sand and shot blasting, tumbling, and rattling methods of cleaning in the foundry industry but in the metal working field, it replaces acid pickling, wire brushing, abrasive scrubbing and other methods of cleaning sheets, shapes, billets, slabs and forgings. By simple mechanical means the AIRLESS WHEELABRATOR cleans all metal surfaces, in less time and at greatly reduced costs without the use of one pound of compressed air. ● And elimination of compressed air means elimination of expensive compressor equipment and costly power necessary to generate the air pressure. Further economies are effected by a more economical use of abrasive. The abrasive does not disintegrate so quickly and pass off as dust which happens in air pressure blasting. With less dust the exhaust system is reduced. Valves, piping, air gauges, water separators and aftercoolers are also eliminated. In general, the AIRLESS WHEELABRATOR replaces elaborate and complicated sand blast equipment with the simplest kind of cleaning system, yet in its extreme simplicity the WHEELABRATOR is even more effective than high pressure blasting. One WHEELABRATOR is equal in production and quality of cleaning to more than six abrasive blast nozzles, 1/4-inch size at 90-lb. air pressure. ● This unique and new method of cleaning is accomplished by the device illustrated. Abrasive suited to

the work is fed by gravity from a storage hopper into the WHEELABRATOR. From this specially designed and constructed wheel, abrasive is ejected and cleans the work which passes beneath. Although the velocity of the abrasive is less than that of sand blasting with 90-lb. pressure, a much greater quantity is ejected and with the unique working construction of the WHEELABRATOR, cleaning results exceed high pressure blasting. ● With this simple mechanism replacing the elaborate equipment needed for high pressure blasting, acid pickling, abrasive scrubbing and other cleaning methods, it follows that the WHEELABRATOR will effect important savings in operating costs. ● The American AIRLESS WHEELABRATOR is not just another improvement in sand blast equipment, but constitutes a new method or process of cleaning. Elimination of costly compressed air in sand blasting has been the goal for years of experimental work and finally the successful development of the AIRLESS WHEELABRATOR abrasive cleaning method. The American Foundry Equipment Company is exclusive licensee under patent applications, and has its own additional applications pending, covering both the method and equipment. ● Installation of the AIRLESS WHEELABRATOR is made only after a demonstration at our plant on your work. Regardless of the kind of work you have or what type of cleaning equipment you are operating, we can prove, by actual demonstrations, that the AIRLESS WHEELABRATOR can save money for you.



Patents Pending

Here's the comparison . . .

WHEELABRATOR versus SAND BLAST



Horse-Power

Reduction in horse power is one of the greatest economies effected by the AIRLESS WHEELABRATOR. Here are actual comparative figures. At 90-lb. air pressure, six abrasive nozzles require 100 to over 400 H. P., depending upon the nozzle size, between 1/4-in. and 1/2-in. The WHEELABRATOR will do equal or better work using a maximum of 10 H. P. Here is a considerable saving that will be earned as long as the AIRLESS WHEELABRATOR is operated.



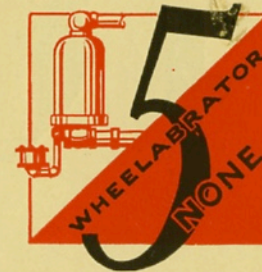
Dust Arrester and Fan

Exhausting equipment required with cleaning systems can be cut materially when the AIRLESS WHEELABRATOR is used. Reduction in abrasive disintegration and loss, and the elimination of compressed air expelled in the high pressure blast equipment which must be removed, naturally reduce the dust arrester and fan equipment. Again, in another way, the AIRLESS WHEELABRATOR reduces initial costs and maintenance expense.



Air Compressor

The AIRLESS WHEELABRATOR is a self-contained unit and is entirely mechanical, eliminating the air compressor with its costly motor, receiver, valves, piping, etc. Besides the saving in the initial investment in all this equipment there is a constant economy in maintenance. The WHEELABRATOR with its extreme simplicity requires only a small motor (10 H. P.) which is an integral part of the machine.



Water Separators, Gauges, etc.

Cleaning without compressed air does not only mean the elimination of the air compressor, a saving in horse-power, reduction in exhaust equipment and economy in abrasive, but it means a saving in necessary accessory equipment such as water and oil separators, aftercoolers, air gauges, check valves, etc. These parts, all necessary to pressure systems, are eliminated.



Abrasive

The American AIRLESS WHEELABRATOR will save many hundreds of dollars in abrasive alone in the course of a year. In air pressure blasting the abrasive not only quickly disintegrates when it impinges the work but it also breaks down into dust while traveling through the pipe lines and ejected through the small nozzle openings. With the elimination of all blast pressure lines, nozzles, etc., and with the abrasive ejected from the WHEELABRATOR at only half the velocity, compared to pressure blasting, great savings in abrasive are effected.



Valves, Hose and Fittings

The American AIRLESS WHEELABRATOR eliminates most of the maintenance expense which is common to every type of sand blast equipment. Practically the only wearing parts of the WHEELABRATOR are the throwing blades and wheel guard. The replacement cost of these compares favorably with the nozzle expense in pressure blasting. Every blast cleaning equipment user will welcome a cleaning machine which reduces maintenance expense to a minimum as is accomplished with the AIRLESS WHEELABRATOR.

and the WHEELABRATOR works equally well on

TUM BLAST

One of the major applications of the AIRLESS WHEELABRATOR is on the American Tum Blast Cleaner. A WHEELABRATOR with a 10 H. P. motor will increase the Tum Blast cleaning capacity. Compare this to the 75 to 125 H. P. required to supply compressed air for pressure blasting. The WHEELABRATOR can be applied to any Tum Blast now installed. In a few months it will pay for itself in compressed air savings alone. No user of the American Tum Blast Cleaner can afford not to equip his machine with an AIRLESS WHEELABRATOR.

ROOM

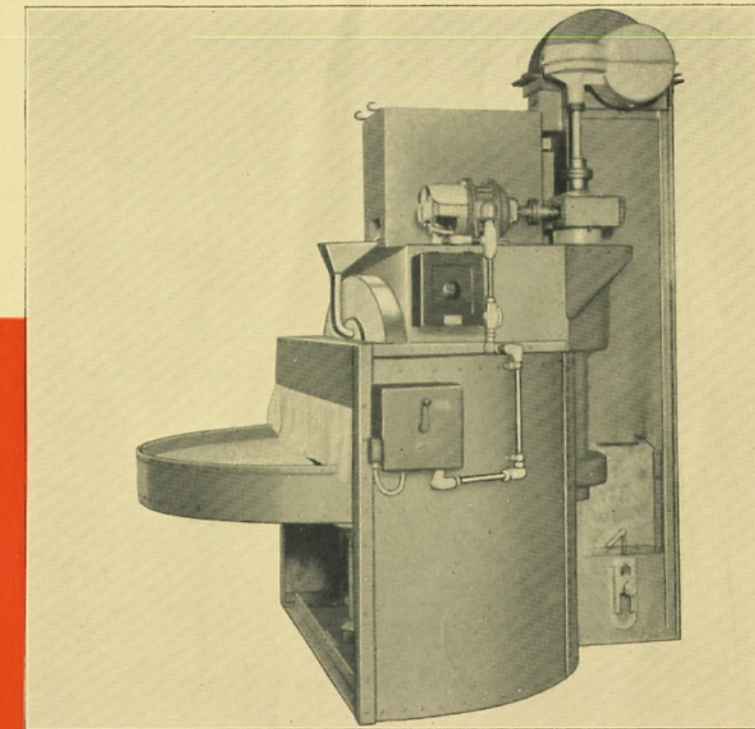
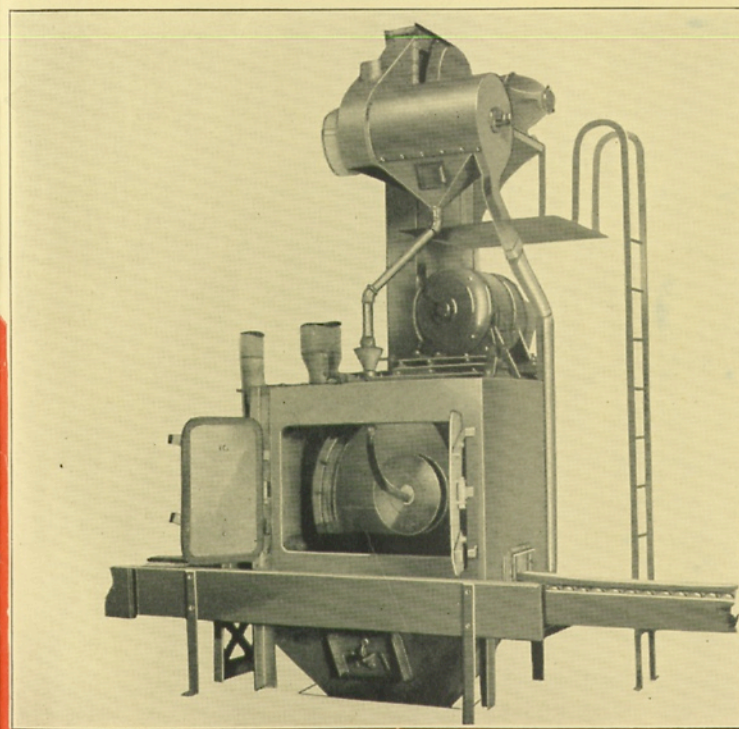
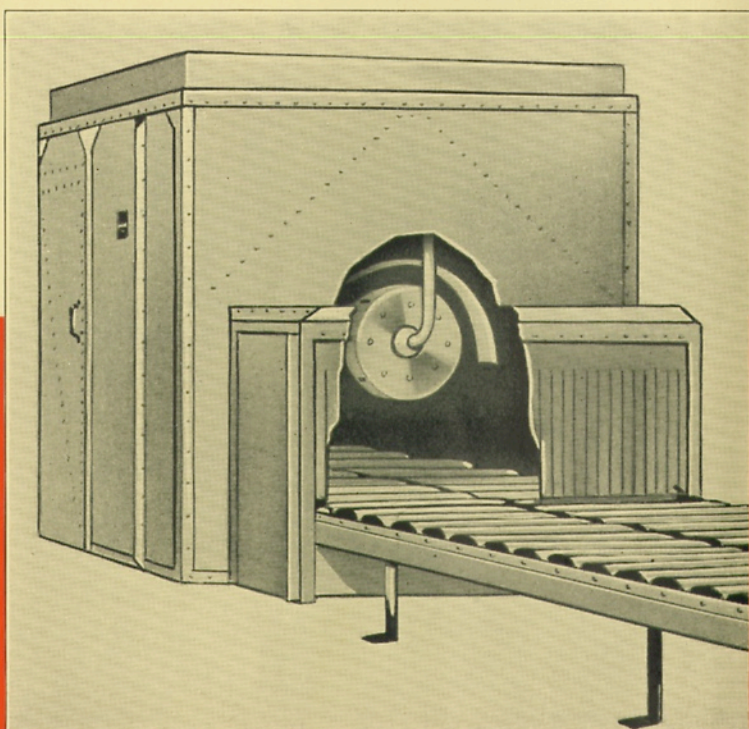
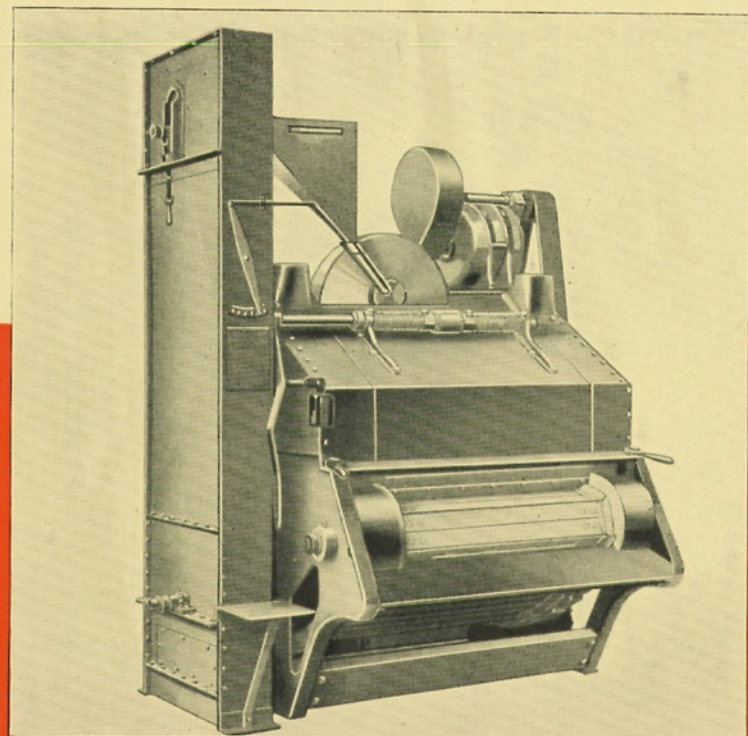
The American AIRLESS WHEELABRATOR can be applied to blast cleaning cabinets, rooms or rotary tables, in which the work to be cleaned can be moved under the stationary unit. This type of WHEELABRATOR installation is particularly suited for the cleaning of steel sheets, shapes and castings of varied types. When standard equipment is not applicable special WHEELABRATOR cabinets and rooms are designed for the particular job. Regardless of your work there is a WHEELABRATOR application to suit.

CABINET

The special AIRLESS WHEELABRATOR cabinet illustrated below is installed in one of the world's largest steel manufacturing companies. The user states that it cleans billets better than the acid pickling method and at less cost. This compact, self-contained unit replaces costly pressure blasting systems with the expensive auxiliary equipment and elaborate acid pickling installations. American AIRLESS WHEELABRATOR cabinets, constructed for the application, are especially suited for the cleaning of billets, bars, sheets and shapes.

TABLE

The automatic rotary table is another type of equipment on which the AIRLESS WHEELABRATOR is particularly applicable. Here again the WHEELABRATOR will increase production and quickly pay for itself in savings it effects by eliminating costly power consumption for compressed air. No matter what type, size or make of automatic rotary table you are operating an AIRLESS WHEELABRATOR can probably be profitably applied.



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