

AMERICAN LINE.



- • • • • Airless Wheelabrator Abrasive Cleaning Equipment
- Abrasive Blast Equipment of All Types
- Dust Collectors
- Sand Cutting Machines
- Aluminum Taper Flasks
- Pouring Jackets
- Core Machines
- Rod Straighteners
- Wheelabrator Shot and Grit
- Long Life Nozzles

THE AMERICAN FOUNDRY EQUIPMENT COMPANY
Mishawaka, Indiana, U.S.A.

NEW JACKETS . . . That are Self-adjusting



• The New American Jacket, by means of a single point pivot at the parting line, adjusts itself to the taper of the mold (from straight sides to 6 degrees) and allows half an inch out of square mold. The jackets are made in either cast aluminum or cast iron. They are light in weight, yet the cast sides will not bend nor distort as they sometimes do in rigid, cast or welded jackets. By interchanging a set of sides or ends, a different size jacket may be had. This practical feature greatly reduces investment and saves space.

AMERICAN "Rapid" CORE MACHINE



• The American Rapid Core Machine is a practical and economical method of making perfect stock cores. The cores produced are perfectly round, of correct density and absolutely sound. No single in this machine that an operator may easily operate it, making cores faster and better than 4 or 5 skilled core makers. The "Rapid" will make 10' of core per minute, absolutely round and of uniform size.

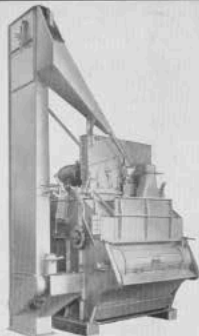
American Rod Machines--- Eliminate Waste!



• The American Rod Straightener and Shear is designed to eliminate the costly expense of straightening core rods and gages to hand. There are five rollers, straightening rods up to 2 1/2" in diameter and shearing rods up to 1 1/2" in diameter. A rod machine and an operator will save some hundreds of dollars a year in labor alone, plus a substantial reduction in purchases of rod stock. If you have any rods to straighten an American Rod Machine will save money for you.



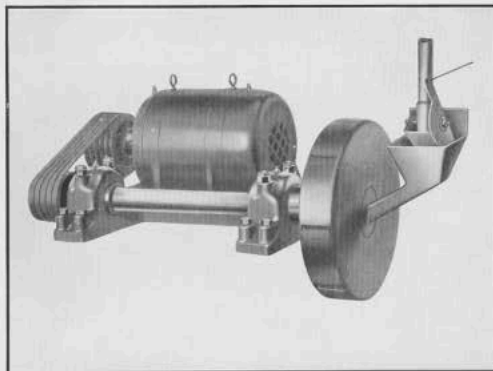
WHEELABRATOR Airless Abrasive Cleaning Equipment



TUM BLAST

The American Airless WHEELABRATOR Turn Blast Chamber is unequaled in performance, low cost cleaning and high production.

With not over 15 H.P. motor, the WHEELABRATOR Turn Blast can clean work from 25% to 40% faster than with air blasting & to 12 times the power. In addition to faster cleaning, the Turn Blast provides faster loading by crane, removal or hoist bucket, faster unloading by simply reversing the conveyor and allowing the castings to fall into any suitable receptacle, cast inspection and greater exposure of the castings to the cleaning blast.



ROOM

The American Airless WHEELABRATOR can be applied to rooms in which the work to be cleaned can be moved to the WHEELABRATOR. This type of installation is especially suited for the cleaning of steel sheets and castings, and large castings of varied sizes and types.

The work to be cleaned is placed upon a conveyor or table which carries it into the room. In most rooms of the type illustrated the wheel is placed at right angle to the direction of travel of the work to be cleaned. The table of blast stream from the wheel can be varied from 30° to 180° effective cleaning action. Remove any belt with 2, 3, 4, or any reasonable number of wheels is provided to give a wider cleaning range and the wheels are placed below and the strike side of the work cleaned by these wheels. Exactly the same cleaning action is obtained with the blow as with the upper wheel.

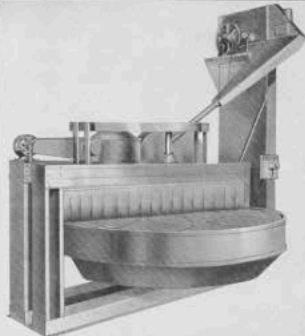
The WHEELABRATOR is the most important improvement made in the abrasive cleaning field in fifty years. Employing centrifugal force, abrasive is thrown with greater force and with more effective cleaning action than with air. The power saving effected is almost unbelievable. Operated with not over 15 H.P. the WHEELABRATOR will do more effective work than air blasting using 100 to 200 H.P. The WHEELABRATOR and motor assembly is shown above. • The direction in which the abrasive is thrown is definitely controlled. All of the abrasive can be thrown from the wheel downwards, upwards or to either side. The full effect of all of the abrasive is therefore utilized. Up to 300 lbs. of abrasive per minute is thrown by the WHEELABRATOR or nine tons per hour. • The WHEELABRATOR design and detail and the directional control features are all covered by patents and patent claims allowed.

TABLE

For work which requires a rotary table, the WHEELABRATOR Automatic Rotary Table cannot be equalled for low cost of operation and high production.

The WHEELABRATOR is located in the housing directly above the work to be cleaned and gives proper coverage so that all of the castings are uniformly cleaned. There is no load on the table as motor above the castings are placed. This is accomplished without the expense of complicated rotating devices, etc.

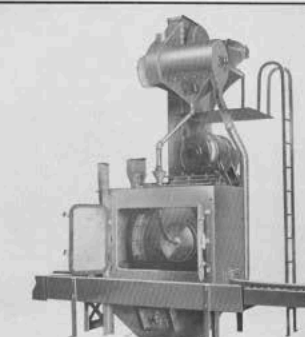
A novel feature of the American WHEELABRATOR Rotary Table is the four auxiliary rotary tables mounted on the large table. These four tables, revolving under the WHEELABRATOR process all surfaces and edges of the material to the WHEELABRATOR action. The housing action is efficient and thorough. Castings need stamped and parts usually require two to four treatments by air abrasive action so thoroughly cleaned in one revolution of the American WHEELABRATOR Automatic Table.



CABINET

The American WHEELABRATOR Cabinet is designed for the cleaning of filters, lamp sockets, tubes and tubes of any long narrow materials. • Interior rolls or carrier the work through an cabinet in which is heated either one or two WHEELABRATOR units, depending on the size of the work.

On the cleaning of tubes, special rolls are used to rotate the tubing as it is conveyed through the cabinet. Only one WHEELABRATOR wheel is required for this application. • The WHEELABRATOR is almost parallel to the direction of travel of the material. This type of rotation is usually employed for work 2 to 12" in width. When the wheel is exactly parallel to the work, material up to 4" wide is effectively cleaned. The wheel can be turned a 15 degree angle to clean up to 12" wide. When a wheel is placed below the lower surface also cleaned. Scale is thoroughly removed from filters, lamp and similar shapes at speeds of 100 to 300 feet per minute depending on width of the material.





SAND CUTTERS

. . . that have built
Foundry History . . .

The American Sand Cutters pioneered twenty-five years ago in the sand preparation field just as the WHEELABRATOR today is revolutionizing the abrasive cleaning field. American Sand Cutters have saved literally millions of dollars for their users and undoubtedly have contributed more than any other piece of foundry equipment to efficient and economical operation of the foundry industry. • Cutting the sand approximately 56 times for each foot of travel the sand is thoroughly mixed, aerated and blended. The American Sand Cutter will do the work of 10 to 25 men.

Over 1,000 American Sand Cutters Have Been Sold

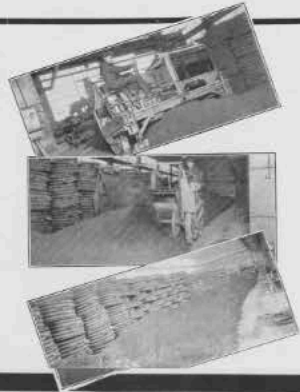


TYPE "K" SAND CUTTER

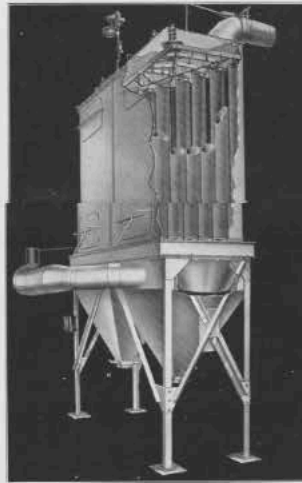
• The type "K" American Sand Cutter has been designed and built for heavy duty work. The constant production in large modern foundries requires the ruggedness and the strength that has been built into this machine.

The operator rides, driving with levers and foot clutch. His position provides a clean forward, back and sideward view, enabling him to maneuver through close quarters. The type "K" cutter is built with cutting cylinders in widths of 6', 7', and 8'. It may be driven either by a gas engine or electric motor.

The similarity of this Sand Cutter to the motor truck has enabled the use of proved principles of design, and materials of the highest standards. •



The New American AIR FILTER with static pressure control



• The American Air Filter is a distinctly new improvement in Dust Arrestor equipment. It is continuous in operation and automatically cleans itself. The American Air Filter is built in units and two or more of these units are used on each installation. The American Static Pressure differential control is an electrically operated device which is actuated by a diaphragm valve. This valve is connected to the clean air side and the dust laden air side of the Dust Arrestor. When there is an unbalanced condition between these two sides due to the accumulation of dust on the filter, the diaphragm valve automatically cuts out of the system, the tubes are shaken and the direction of air is reversed in this particular unit. Then automatically this unit is open to the system and the next unit is cut out and cleaned. This continues for as many units as there are in the system. The tubes are not severely shaken and only enough dust is removed to permit the relatively free passage of air through them. This has the effect of leaving a thin cake of dust on the lower walls of the tubes. It is this cake which arrests the dust.

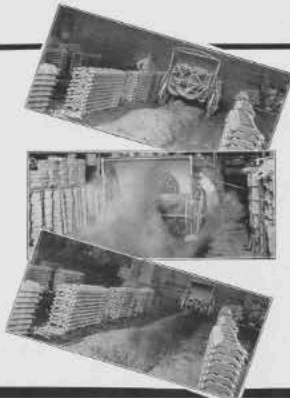
As a result we obtain the highest efficiency in removing the very fine particles of dust and yet the tubes are not permitted to accumulate so much dust that the efficiency of the arrester is lowered. •

TYPE "AA" SANDCUTTER

• The American Type "AA" is the most popular of all Sand Cutting Machines. It is comparatively light in weight with all parts readily accessible, making it easy for the unskilled foundry labor to maintain. Unperforated, soft floors that will not bear the heavier types can be easily cut by the "AA" Cutter. It is easily operated, the operator walking while the machine is in motion.

These sand cutters are built with cutting cylinders 12", 5', 6' and 7' in width and may be driven by either gas engine or electric motor.

The Type "AA" sand cutter is recommended for medium to heavy floors. This machine will give years of service, and low cost sand conditioning at the minimum maintenance expense. •



American Long Life NOZZLES

These nozzles are lined with a special alloy which has practically diamond hardness. They will last for hundreds of hours without excessive wear. This means a savings in time, money, and most of all,

easily compressed air. There are styles for all makes, types and sizes of sand blasting equipment. Every nozzle is sand blasted to insure the highest quality.

GUARANTEE

• We hereby guarantee to every purchaser of an American Long Life Nozzle that the nozzle will give at least 300 hours continuous service with high pressure, and 500 hours with gravity or suction systems. In the event the nozzle fails to meet this guarantee, we will generously make you rain refund on the purchase price for the number of hours short of the guarantee. •



WHEELABRATOR ... SHOT & GRIT ...



WHEELABRATOR Shot and Grit is not limited to either suction or pressure types. They offer a small outfit adaptable for the blasting of small castings which must be cleaned by hand. • The suction cabinet is a continuous operating unit, the suction being connected to the bottom of the hopper. It is operated by a foot treadle control. The pressure cabinet is a very hard hitting unit using a 20"x30" pressure tank outfit, the same type that is used in all the large American sand blast installations. •



A COMPLETE LINE OF SAND, GRIT and SHOT BLAST EQUIPMENT



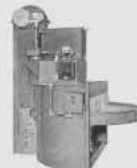
ROOM

American Ventilating Hopper Draw Draft Sand Blast Rooms are made in various sizes and may be equipped with rotary table, double swinging doors, and tracks or conveyors. The draw draft principle of ventilation as embodied in this equipment, keeps the dust in the room at an absolute minimum. The abrasive is air washed so that only good sharp abrasive is needed. The exclusive features make American Rooms unparalleled in operation and quality of work produced. •



HUMANE ROOM

The Humane Type Room has been designed to provide the most healthful working conditions. The operator works on the outside of the cabinet and shoots the sand blast hose through slatted rubber curtains. The housing covers only half of the table. While the work on the inside is being cleaned, the other half is being loaded. When the work in the cabinet is clean, the table is revolved. The clean work is replaced with castings to be cleaned while the blasting is being done in the cabinet. •



TABLE

American Automatic Rotary Tables are built in both gravity and pressure types and in 7' and 8' diameters. The design of the table and the placement of the nozzle insure complete coverage of the dust on the surface. The abrasive table is a continuous operating unit. The pressure table gives intermittent service, time being required for the refilling of the pressure tank. The pressure table is a very hard hitting unit and does a thorough job of cleaning. •



BARREL

The American Sand Blast Gravity Barrel is especially suited for boxes or aluminum shops or smaller foundries where work is limited. The barrel will clean from one to three tons of castings a day depending upon the work. The barrel draw is 24"x30". Nozzles of a long wearing type enter through the barrel ends. The equipment may be driven from a line shaft. •



CABINET

The American Sand Blast Cabinets are made in either suction or pressure types. They offer a small outfit adaptable for the blasting of small castings which must be cleaned by hand. • The suction cabinet is a continuous operating unit, the suction being connected to the bottom of the hopper. It is operated by a foot treadle control. The pressure cabinet is a very hard hitting unit using a 20"x30" pressure tank outfit, the same type that is used in all the large American sand blast installations. •



TANK

The pressure tank outfit is valued either for portable use or for a permanent installation. It is supplied in five different sizes and in the same type and construction which is used in all the large American sand blast installations. The outfit includes all necessary piping and control valves, 10 feet of hose, 50 extra nozzles, operator's belt and gloves. A vacuum breaker may be supplied which provides a storage above the tank for abrasive and a means for screening out refuse when cleaning is desired. •