

The Lincoln Electric Company

13036 Coit Road, Cleveland, Ohio

Largest Manufacturers of Arc Welding Equipment in the World

Branch Offices and Distributors in All Principal Cities

Manual and Automatic Arc Welding Equipment, Electrodes and Supplies; A.C. Motors in Standard Types ½ to 200 H.P.

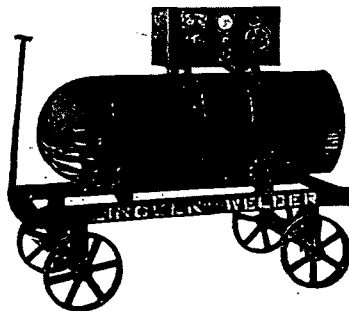
Shielded Arc Welding

Welds made by the shielded arc with Lincoln equipment have a tensile strength of 65,000 to 75,000 pounds per square inch, ductility and density equal to mild rolled steel and greater resistance to impact, fatigue and corrosion. Shielded arc welding is used in the fabrication of pipe systems, steam, water, oil and gas transmission lines, also in the fabrication of ducts and other sheet metal products, also in the construction of fan and blower housings, boilers, furnaces, tanks and pressure vessels. Shielded arc welding under the proper procedure satisfies all the requirements of the A.S.M.E. Boiler Code and insurance regulations.

The Lincoln "Shield-Arc" Welder

Lincoln "Shield-Arc" welders have many exclusive patented features which make possible the following 3-way guarantee of welding with "Shield-Arc" welders:

1. More weld metal deposit per K.W.H.
2. Faster welding per K.W.H.
3. Lower cost per unit of welding—the unit being per lineal foot of weld, or per pound of weld metal, or per hour of welding.



Lincoln "Shield-Arc" Welder

Lincoln welders, A.C. and D.C. motor driven, are built in 100 to 400 ampere sizes; belt and gasoline driven types in 100 to 600 ampere sizes.

Welding Electrodes

"Fleetweld"—For shielded arc welding of pipe, plate and shapes. Welding speed 150 to 300 per cent faster than ordinary welding.

"Lightweld"—For shielded arc welding of 16-24 gauge metal.

"Stainweld A"—For welding 18-8 stainless steel.

"Aluminweld"—For welding aluminum.

"Ferroweld"—The electrode that solves cast-iron welding problems.

"Hardweld"—A high carbon rod for hard surfacing.

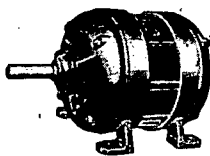
"Manganweld"—For welding high manganese steel.

"Stable-Arc"—A non-splashing rod for general welding purposes.

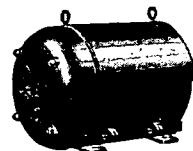
Lincoln "Linc-Weld" Motors

Known as the motors which deliver extra horsepower without sacrifice of power factor or efficiency. Arc-welded rolled steel frames provide structural strength without bulk. This permits larger openings for greater ventilation, resulting in cooler operation of motors. Built in all standard types of poly-phase induction motors for pump, fan and blower service, also for other general and special purposes.

Use of the stainless steel motor, the "Linc-Weld," Type E (totally enclosed, fan cooled), is recommended wherever there is dust, dirt, moisture or fumes in sufficient quantities to clog an open type motor or to abrade and corrode windings and bearings. Though completely sealed, the "Linc-Weld" Type E stainless steel motor operates continuously at full load well within the N. E. M. A. allowable temperature rise of 55 degrees Centigrade.



The Motor with the Extra Horsepower, Lincoln "Linc-Weld" Type D



Stainless Steel Motor, Lincoln "Linc-Weld" Type E, Totally Enclosed, Fan Cooled

Westinghouse Electric & Manufacturing Co.

East Pittsburgh



Pennsylvania

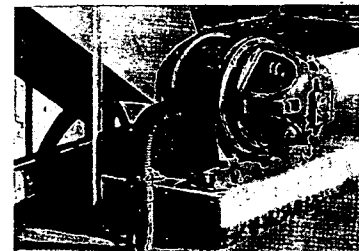
Research, Application and Design Engineers will cooperate and solve any electrical problem for heating and ventilating systems.

Sales Offices and Service Shops in all Principal Cities

Quiet Operating Motors

The Westinghouse Company has long recognized the need for quiet operating machinery and has devoted a vast amount of research work to the development of special instruments to measure noise accurately. The human element, which gives variable results, is eliminated in all testing procedure.

Westinghouse Quiet Operating Motors are specially designed and individually

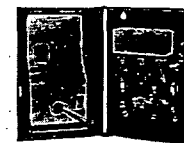


A Type CW Variable Speed, Quiet Operating Motor Driving Fan

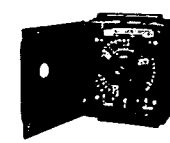
tested under loaded and unloaded conditions in a sound-proof room. A special nameplate is your assurance of their high standard of quiet operation.

Lasting quietness is assured by rigid, unit cast motor frames which contribute to the permanence of bearing alignment and air gap. Rotors are given a special dynamic balance, practically eliminating noises due to vibration.

Motor Control



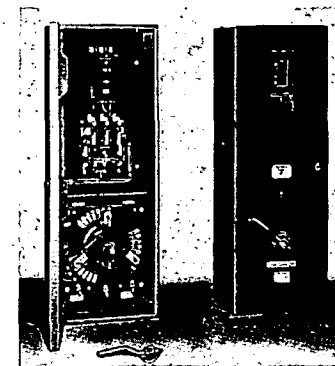
Line starter for A-c. Drives



A Class 12-018 Speed Regulating Rheostat for use with Fan Drives

Starters, speed regulators, thermostats, switches and No-fuze circuit breakers are available for every requirement.

For fan drives, the new Westinghouse Type O-1 Controller offers unusual advantages. This unit assembly includes the equipment ordinarily housed in three separate cabinets. Primary Linestarter,



Open and Closed Views of Type O-1 Fan-Drive Control, Wall-mounted Types

speed regulator and No-fuze breaker for circuit disconnect and protection are all mounted and wired in a neat cabinet for wall or floor mounting. Installation is greatly simplified and its appearance is improved.

Arc Welding



FlexArc A-c. Welder for Simplified Fabrication

For the fabrication of thin-gauge materials such as ducts, Westinghouse offers the FlexArc A-C welder. Its operation is extremely simple and it uses less than 15 cents worth of power an hour. One man can wheel it easily from place to place. It operates from the ordinary single-phase power circuit.