

# **AUTOMATIC VACUUM CLOSING MACHINE ... for rectangular and irregular shaped cans, parallel and taper**

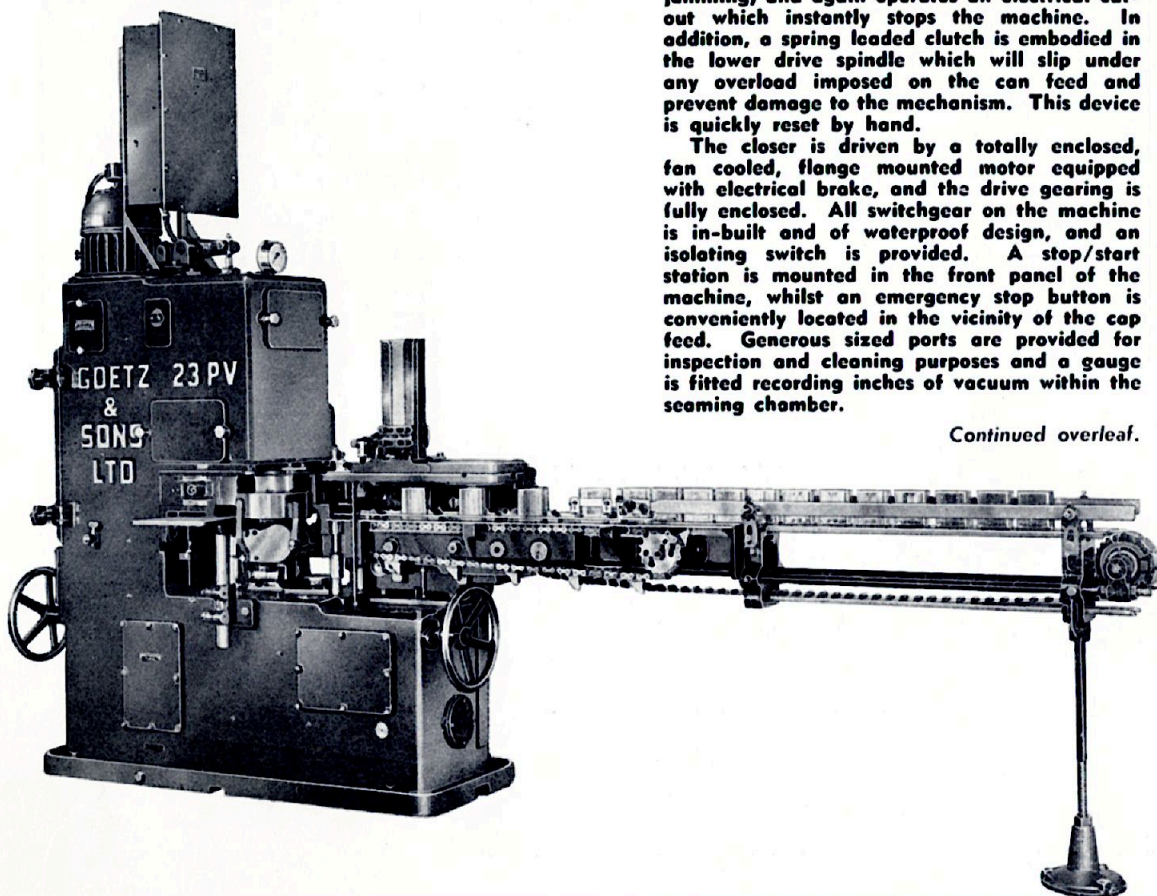
# **MODEL 23PV**

The automatic machine illustrated below is designed for closing filled cans of rectangular or irregular shape under vacuum. It is expressly intended for handling meat packs and semi-solid products, and does not require any pre-clinching of caps and bodies prior to the seaming operation within the inbuilt vacuum chamber. Approximately twenty-six inches of vacuum is normally obtained in the chamber when the machine is connected with a 10-H.P. vacuum pump, such as a "Nash Hytor" or equal unit, although the closer may be conveniently operated off an existing vacuum line of sufficient capacity in the cannery. With this type of unit the filled cans are not required to pass through a steam exhauster before being closed, and savings are thus effected in floor space, installation and maintenance of exhauster, etc.

Cans are fed into a rotating turret on the machine by a stainless steel conveyor belt and caps are automatically fed from the stack in timed relationship. A branding device is incorporated in the cap feed and makes use of our standard "type" blocks, the type holder itself being of double row pattern and readily removable for quick changes of type. The machine is equipped with a "No can — no cap" mechanism which ensures that no cap is fed from the magazine without a can body being in position, and obviates the feeding of surplus caps irrespective of whether cans enter the machine continuously or at random. Other safety devices fitted include an electrical cut-out which stops the closer should the supply of caps be allowed to run out, whilst an overload clutch in the cap feed safeguards the machine in the event of a damaged cap causing jamming, and again operates an electrical cut-out which instantly stops the machine. In addition, a spring loaded clutch is embodied in the lower drive spindle which will slip under any overload imposed on the can feed and prevent damage to the mechanism. This device is quickly reset by hand.

The closer is driven by a totally enclosed, fan cooled, flange mounted motor equipped with electrical brake, and the drive gearing is fully enclosed. All switchgear on the machine is in-built and of waterproof design, and an isolating switch is provided. A stop/start station is mounted in the front panel of the machine, whilst an emergency stop button is conveniently located in the vicinity of the cap feed. Generous sized ports are provided for inspection and cleaning purposes and a gauge is fitted recording inches of vacuum within the seaming chamber.

*Continued overleaf.*



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The seaming head carries two first and two second operation seaming rolls running on needle roller bearings, and the tracing and seaming arms are in hardened and ground steel. The cams controlling the seaming roller movement are hardened and precision ground to a special profile and the whole head is constructed to fine limits. The tracing chuck is

hardened and ground, as also are all parts subject to wear and pressure. A cam operated knockout rod is fitted in the head. All major operating mechanism is enclosed in an oil-tight base chamber, away from brine, acid, etc., and where distribution of the lubricant therein is carried out by both pressure and full-flow oil pumps.

### S P E C I F I C A T I O N S

Will close the following range of can sizes:

Maximum height can .....	4-11/16"
Minimum height can .....	1 7/8"
Maximum size of can .....	3 1/4" x 3 1/4"
Minimum size of can .....	1 1/2" x 1 1/4"
Maximum dimension across corners .....	4 1/2"
Minimum corner radius all sized cans .....	3/8"
Output per minute .....	58 cans
Capacity and speed of electric motor .....	3 HP-1460 RPM
Overall floor space .....	140" x 30"
Extreme height .....	95"
Nett weight approx. ....	40 cwts.
Shipping space approx. ....	182 cub. ft.

### CHANGE FITTINGS

As change fittings are required for each particular can size, enquiries regarding this closer should be accompanied by samples of the cans and caps to be seamed. Sets of change fittings are furnished at extra cost.

- Spare hardened and form-ground seaming rollers are always available from stock.

*Particulars and Designs are subject to alteration without notice.*

