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GOETZ

E N G I N E E R S • D I E M A K E R S

Manufacturers of power presses, high speed automatic can making and can sealing equipment, press tools & dies and sheet metal working machinery.

W . G . G O E T Z & S O N S L I M I T E D

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HIGH SPEED AUTOMATIC CAN SEAMING MACHINE

MODEL 12_P

The "Goetz" Model 12-P Seamer is a modern, compact, high speed unit for use in the can shop, and is designed for manufacturing open top round cans at speeds up to 500 cans per minute. The machine is equipped with six seaming spindles in a rotating turret and operates on the spinning can principle, the cans revolving during the seaming operation.

Adjustment for can height is made by

raising or lowering the seaming turret unit, the height of the can feed table above floor level thus remaining unaltered.

A variable speed motor drive is fitted giving a speed range of 200-500 cans per minute.

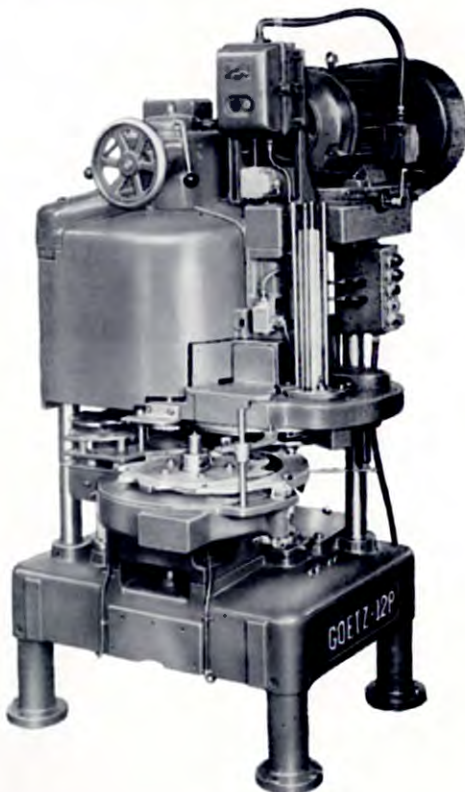
SEAMING TURRET

Housed within the seaming turret are six alloy steel seaming spindles mounted on ball and taper roller bearings and driven by specially profiled helical gears. The turret rotates on anti-friction bearings, and the whole seaming assembly is of rugged construction for sustained high speed operation and ability to retain adjustment.

Stationary first and second operation cams actuate the seaming roll levers, the second operation cam incorporating an adjustable sprung cushion section which allows the second operation roller to pass smoothly over the thicker side seam portion of the can. To enable first operation seam inspection to be carried out, the second operation cam may be made inoperative by means of a simple, quick adjustment provided. After checking seams, the cam is returned to its operating position without disturbing the setting of the second operation seaming rollers.

Both first and second operation seaming roll levers are provided with a convenient graduated adjustment to facilitate settings, and carry large diameter hardened and form ground seaming rollers running on roller bearings. These seaming rolls are in a heat-treated stainless steel of special specification and combine extreme hardness with maximum anti-corrosive and wear resistance properties.

Continued overleaf



MODEL 12P

HIGH SPEED AUTOMATIC CAN SEAMING MACHINE

GENERAL DETAILS (Cont.)

it is possible to convert in the field the basic seamer machine into a cannery closer should this ever be desired. Also, it is highly advantageous to those companies operating both types of 12-P machine, as the number of spares normally held for servicing both units is reduced to a minimum.

Attention has also been paid to the electrical installation to ensure trouble-free running. Again, all equipment is of water-proof type, and the machine is furnished with a control panel having start/stop buttons, selector switch and indicator lights thereon. With the selector turned to the "Set" position, the seamer may be run during the setting-up period without the automatic stops in operation. An isolating switch is also provided on the machine.

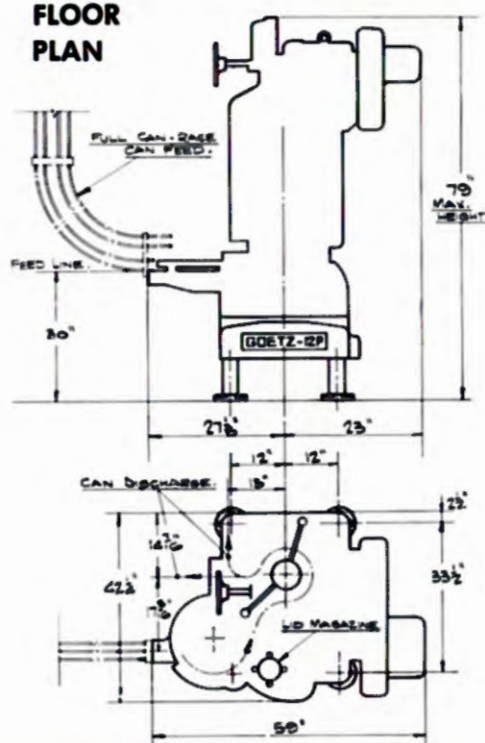
OPTIONAL EXTRAS

- Automatic can-feed stop unit.
- Tachometer indicating seamer speed in cans per minute.

SPECIFICATIONS

Can diameter — Maximum	.....	.....	.....	.....	.....	.....	.....	404 (41")
— Minimum	.....	.....	.....	.....	.....	.....	.....	202 (21")
Can height — Maximum	.....	.....	.....	.....	.....	.....	.....	708 (71")
— Minimum	.....	.....	.....	.....	.....	.....	.....	108 (11")
Distance — Floor to feed table level	.....	.....	.....	.....	.....	.....	.....	30"
Number of cans per minute, variable	.....	.....	.....	.....	.....	.....	.....	200-500 (approx.)
Capacity and speed of electric motor	.....	.....	.....	.....	.....	.....	.....	7½ HP — 1440 RPM
Nett weight approx.	.....	.....	.....	.....	.....	.....	.....	38 cwt.
Shipping space approx.	.....	.....	.....	.....	.....	.....	.....	300 cub. ft.

FLOOR
PLAN



Particulars and designs are subject to alteration without notice.

W. G. GOETZ & SONS LTD., 136-140 Hall Street, Spotswood, Melbourne.



HIGH SPEED AUTOMATIC CAN CLOSING MACHINE

MODEL 12P

The "Goetz" Model 12P Closer is a modern, compact, high speed unit for use in the cannery, and is designed for spill-free closing of round cans at a speed up to 600 cans per minute.

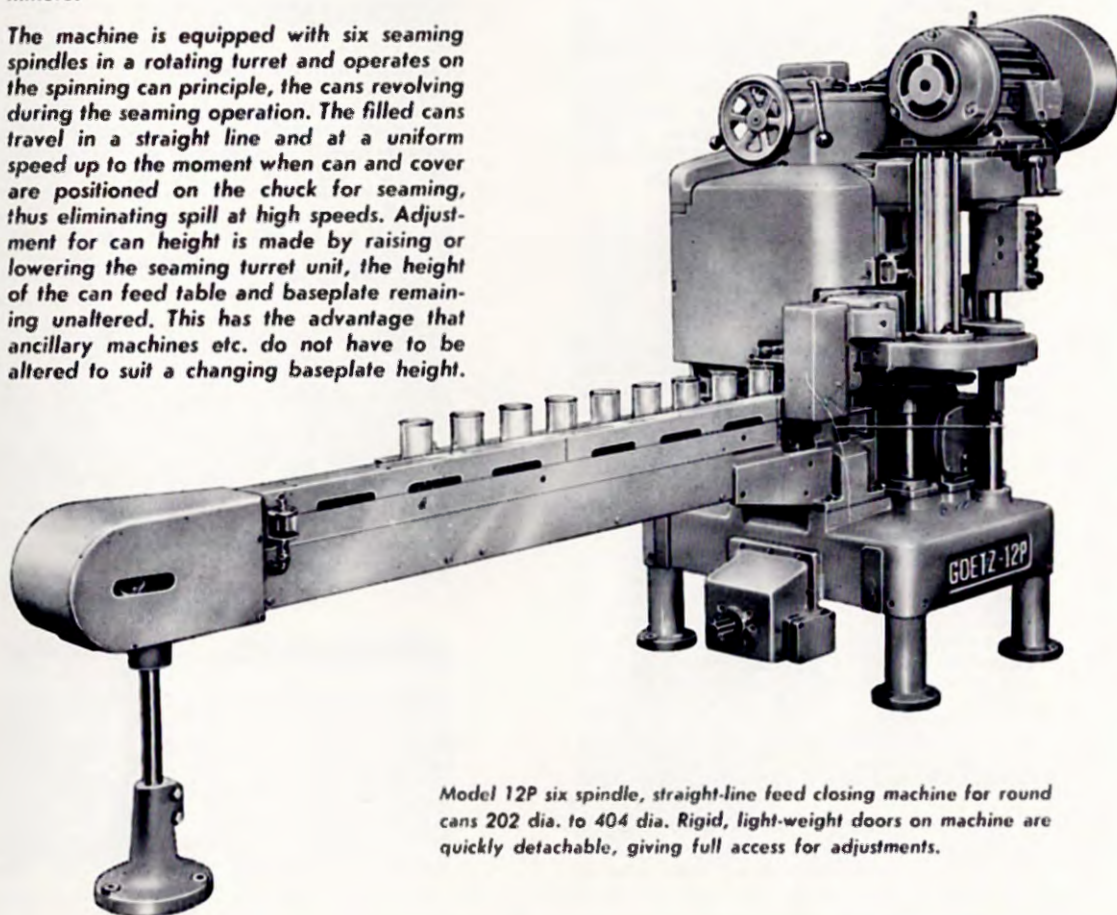
It is meant to operate in conjunction with the latest filling and processing equipment and to this end is furnished with a straight line can feed, filler drive take-off and a standard variable speed drive for 200-500 cans per minute.

The machine is equipped with six seaming spindles in a rotating turret and operates on the spinning can principle, the cans revolving during the seaming operation. The filled cans travel in a straight line and at a uniform speed up to the moment when can and cover are positioned on the chuck for seaming, thus eliminating spill at high speeds. Adjustment for can height is made by raising or lowering the seaming turret unit, the height of the can feed table and baseplate remaining unaltered. This has the advantage that ancillary machines etc. do not have to be altered to suit a changing baseplate height.

SEAMING TURRET

Housed within the seaming turret are six seaming spindles mounted on heavy duty ball and taper roller bearings. The turret rotates on anti-friction bearings, and the whole seaming assembly is of rugged construction for sustained high speed operation and ability to retain adjustment.

Continued overleaf



Model 12P six spindle, straight-line feed closing machine for round cans 202 dia. to 404 dia. Rigid, light-weight doors on machine are quickly detachable, giving full access for adjustments.

MODEL 12_P

HIGH SPEED AUTOMATIC CAN CLOSING MACHINE

SEAMING TURRET (Cont.)

Stationary first and second operation cams actuate the seaming roll levers, the second operation cam incorporating an adjustable sprung cushion section which allows the second operation roller to pass smoothly over the thicker side seam portion of the can. To enable first operation seam inspection to be carried out, the second operation cam may be made inoperative by means of a simple, quick adjustment allowing checks to be made of all six heads at the one time. After checking, the cam is returned to its operating position without disturbing the setting of the second operation seaming rollers.

Both first and second operation seaming roll levers are provided with a convenient graduated adjustment for accurate settings, and carry large diameter, form ground seaming rollers running on roller bearings.

FOOTPLATE ASSEMBLY

The free-spinning footplates are mounted on duplex ball bearings and operate at a fixed height for all can sizes. To allow for variations in tinplate and nominal can height, each assembly incorporates a cushion spring, pressure of which is adjustable to ensure uniform body hooks.

LID FEED

Lids are fed in timed relationship to incoming cans by a simple but efficient lid divider mechanism. This comprises a pair of oscillating, formed discs which separate individual curled covers from the stack in the magazine. The lid divider mechanism is interconnected with a no-can, no-lid trip device.

LID MARKER

A rotary cover marking unit is fitted adjacent to the magazine, and provision is made for the embossing of one, two or three rows of

type with five characters in each row. The small type-holders can be quickly removed and replaced when changing the code marking, whilst preset type-holders may be held in readiness and rapid code changes made at any time. No other parts of the seamer are disturbed. The marker unit is furnished with adjustment to alter the depth of impression of the type, and is adjustable for height to accommodate various panel depths on the can ends.

CAN FEED

The cans are conveyed in a straight line directly to the seaming chucks by means of a duplex chain equipped with feed dogs. The spacing of the feed dogs is arranged to coincide with the spacing of the seaming spindles, and thus the cans do not have to be accelerated prior to the seaming operation. This feature coupled with the fact that the cans are not called upon to change direction or follow a circular path, results in fast spill-free closing.

To minimise spill between filler and closer at the pick-up end of the can feed, it is necessary to deliver cans from the filler in timed relationship to the chain dogs. The most efficient arrangement for filler and closer, employing a tangential take-off from the filler turret, is shown in the Floor Plan overleaf. The typical filler illustrated is driven from the closer, and has a delivery turret rotating in an anti-clockwise direction. Where customers desire to employ fillers with clockwise delivery, it is recommended that they refer to this Company for suitable layout and connections.

FILLER DRIVE

A filler drive unit is mounted on the baseplate for driving a syruper or filler in synchronism with the closer. This drive unit incorporates a safety clutch, the torque load of which is adjustable to suit the filling equipment employed. The clutch may thus be set to disengage should a serious jam occur on the filler. A further feature is that the safety clutch may be re-engaged only when the two

HIGH SPEED AUTOMATIC CAN CLOSING MACHINE

MODEL 12P

machines are again in timed relationship. The filler drive shaft is readily reversible as to rotation.

ADJUSTMENT FOR CAN SIZE

As the can feed table remains at a fixed height for all can sizes, it is necessary to raise or lower the seaming turret unit for changes in can height. This is easily accomplished by means of a hand-crank geared to elevating screws which adjust the turret, together with the cap magazine and marker. Where the can diameter is constant, many can height changes may be carried out without additional change parts. Changes in can diameter, however, require substitution of suitable change parts.

STEAM VACUUM CLOSING

Many products can be closed at high speed on the 12P Seamer utilising the steam vacuum induced method of closing, and where required the machine may be equipped with the necessary steam fittings and special change parts involved. Alternatively the machine may be equipped for under-cover gassing of beer and carbonated beverages, etc.

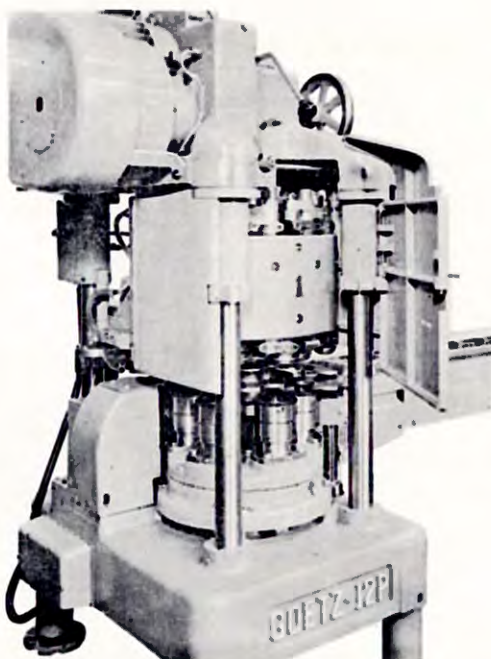
MOTOR DRIVE

An enclosed, variable speed, motorised drive is fitted as standard and gives a normal speed range of 200-500 cans per minute, the adjustment providing infinite speed variation. Change of closer speed is readily effected whilst running. The drive passes through a heavy duty disc clutch (with inter-connected brake) which is actuated from either of two convenient starting levers. A safety interlock device prevents operation of the closer under power when the handwheel is engaged.

AUTOMATIC STOPS

Damage to both filler and closer is prevented by safety stops built into the closer at various points. When a stop is operated due to overloading or jams caused by damaged cans, etc., the clutch is automatically disengaged and the brake applied bringing the machine to a rapid halt. Automatic stops are provided in the filler drive, can feed conveyor and the discharge rail; whilst a further stop is embodied in the cap magazine to stop the closer when the stack is allowed to become too low. The closer cannot be restarted until a jam has been located and cleared, and only then in the correctly timed position. It is important to note that no troublesome, time-wasting shear pins are incorporated anywhere in the design.

Continued overleaf



MODEL 12P

HIGH SPEED AUTOMATIC CAN CLOSING MACHINE

GENERAL DETAILS

All parts of the "Goetz" 12P Closer are generously proportioned to ensure rigidity and strength. Special alloy steels are used in many instances, and stainless steel or bronze employed for numerous parts to resist the effects of steam and corrosion caused by some can products.

All electrical equipment is of waterproof type, and the machine is furnished with a control panel containing start/stop buttons, selector switch and indicator lights. With the selector in "Set" position, the closer may be run during the setting-up period without the automatic stops in operation. An isolating switch is also provided.

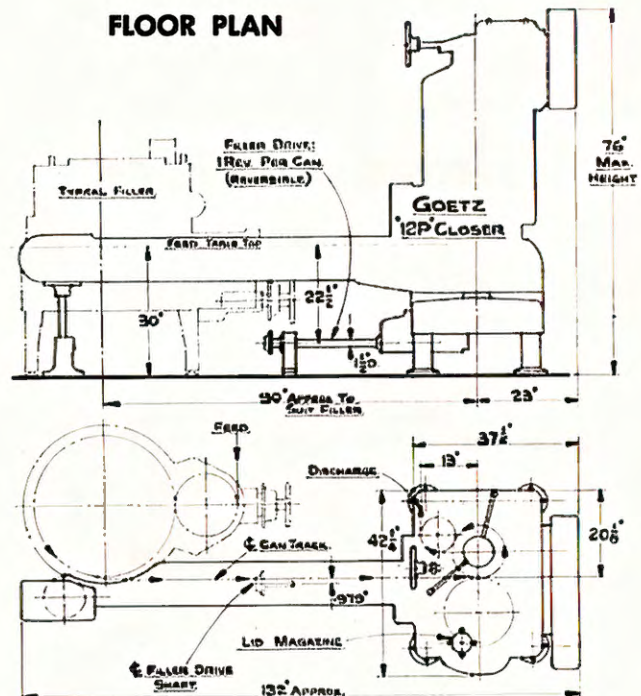
OPTIONAL EXTRAS

- Tachometer indicating seamer speed in cans per minute.
- Can counter.
- In-motion timer for filler drive.
- Extra length table to suit special fillers.
- Speed ranges other than listed above.

SPECIFICATIONS

Can Diameter — Maximum	.....	404 (4 1/4")
— Minimum	.....	202 (2 1/8")
Can Height — Maximum	.....	708 (7 1/2")
— Minimum	.....	108 (1 1/2")
Distance — Floor to feed table level	.....	30"
Feed chain dog spacing	.....	6"
Filler Drive shaft (1 Rev. per can)	.....	1 1/2" dia.
Number of cans per minute, variable	.....	200-500
Alternative speed range CPM, variable	.....	130-330
Capacity and speed of electric motor (Standard)	7 1/2 HP — 1440 RPM
Nett weight approx.	41 cwt.
Shipping space approx.	320 cub. ft.

FLOOR PLAN



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