CIRCOT Leaflet No. 7

Kisan Gin and CLOY Gin

Two CIRCOT Instruments for Ginning Small Cotton Samples

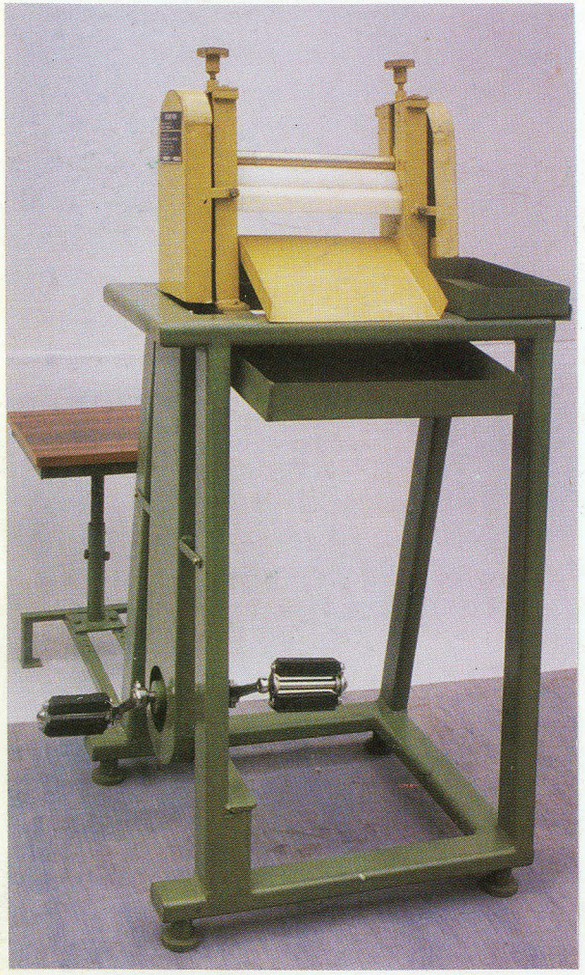
Central Institute for Research on Cotton Technology Mumbai

The quality of cotton fibres, as they grow on the plant, is mainly dependent on the pedigree of the plant and the conditions under which the plant is grown. The inherent quality can be improved upon only by cross breeding, selection and adoption of appropriate agronomic practices; but no improvement is possible after the cotton bolls on the plant have opened out. One of the chief criteria chosen by the cotton breeder while selecting a new strain for further propagation is its ginning percentage. The breeder has to ascertain the ginning percentage of hundreds of varieties with small samples of seed cotton every year as accurately as possible in a short time. The cotton grower also needs to assess the monetary returns likely to accrue from the crop raised by him by estimating the ginning percentage besides the lint yield per unit area under cultivation. Further more, in cotton markets where transactions are done on the seed cotton (*kapas*), the lint content of the *kapas* is estimated by the broker/purchaser by the usual han-and-eye judgement, which is bound to involve large personal errors.

For quick and accurate estimation of ginning percentage, CIRCOT has designed portable type ginning machines for use by ginners, breeders, seed industry, farmers and traders. Two versions of the design are available :

★ Foot Operated Kisan Gin
★ CIRCOT Laghu Otai Yantra (CLOY Gin).

Kisan Gin



Kisan Gin

This is a pedal-operated machine in which a pair of counter-rotating rollers is employed to pinch and pull out fibres from the seeds.

Capacity	:	One kg kapas/hr.
Machine components	:	Two cylindrical rollers (upper made of M.S.and lower made of nylon), Lint doffer, Lint slide, Drive mechanism, Frame.

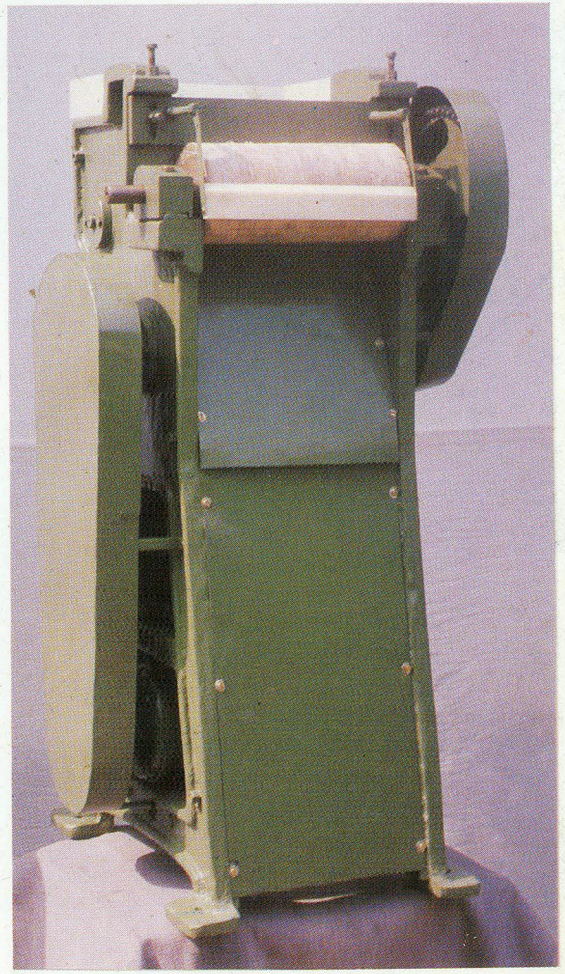
This machine does not require electric power and it can be operated by one unskilled operator.

CLOY Gin

This power-operated machine works on the principle of Macarthy's Gin. A chrome leather roller, fixed knife and moving knife are the main components that accomplish separation of fibres from the seed.

Capacity	:	8 Kg kapas/hr.
Machine components	:	Main body, Gin roller, Knives, Connecting shaft, Pusher and Vibrator and Eccentric system.
Power requirement	:	Single phase, one h.p. motor.

CLOY Gin



License has been issued for fabrication, supply and servicing of Kisan Gin and CLOY Gin to **M/s Precision Tooling Engineers, Nagpur.**

CIRCOT Mumbai

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