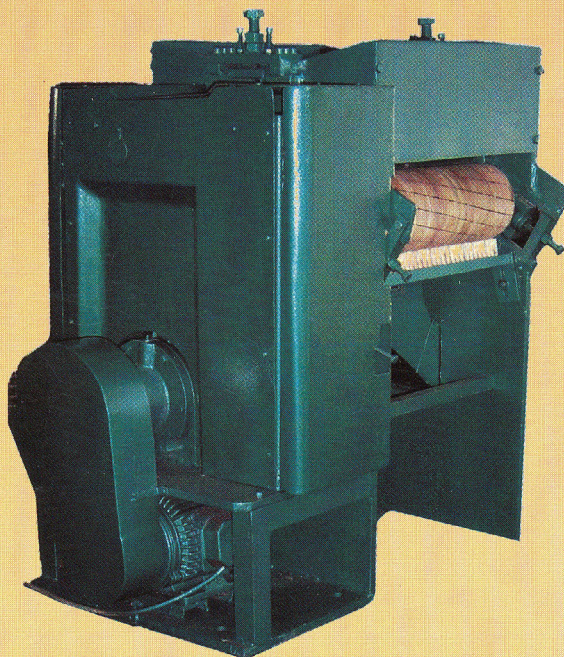


CIRCOT Leaflet No. 49

**HIGH PRODUCTIVE
LABORATORY MODEL
DOUBLE ROLLER GIN**



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Introduction

Apart from fibre properties such as length, micronaire and strength, Ginning percentage (G.P.) is one of the most important attributes to assess the marketability of cotton. The seed cotton possessing higher GP and good fibre properties is likely to fetch better price. Furthermore, in cotton markets where transactions are made on seed cotton, the lint content is estimated by the purchaser/broker by subjective methods, which are bound to involve considerable personal bias. Most of the times seed available in the market is an admixture of different varieties and as a result, pure and quality seeds for sowing are difficult to procure not withstanding their high costs. Besides for ginning small kapas samples commercial size roller and saw gins cannot be employed for the purpose of seed production by marginal farmers. Also for trading activities by market yard personnel and others commercial ginning machines are not suitable due to their high cost and requirement of large quantities of sample.

Laboratory Model single Roller Gin



Lilliput Gin

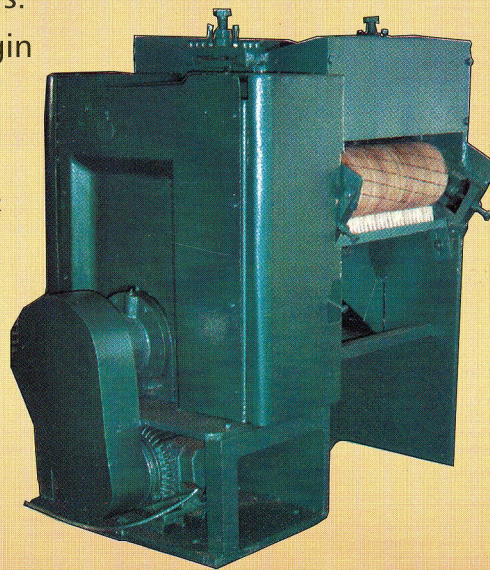
To overcome the problems faced by the cotton breeder, trader, seed industries and farmers, a portable single roller ginning machine 'Lilliput Gin' was designed and fabricated by the Central Institute for Research on Cotton Technology (CIRCOT) at its Ginning Training Center at Nagpur. The various laboratory model gins developed by CIRCOT were so far of single roller type with input capacity varying from 2 to 10 Kg/h of seed cotton.

Laboratory Model DR Gin

A demand was made by seed producers for a large capacity yet of laboratory model type roller gin for increased output. Therefore, a laboratory model 'Double Roller Gin' has been developed by CIRCOT recently in collaboration with the Visvesvaraya National Institute of Technology (formerly VRCE) Nagpur. Christened as "HIPRO Gin" this laboratory model high productive double roller gin can produce on an average 15 kg lint/h. Repeated laboratory tests have shown that the pristine quality of the fibre is preserved and no cut seeds are found in the ginned lint.

Highlights of HIPRO Laboratory Model DR Gin

- First Lab. Model Double Roller Gin
- Works on single phase electric supply
- Can be operated by farmers.
- Designed & developed to gin large quantity of seed cotton samples (50 kg/h) quickly to test their fibre & seed quality.
- Highly suitable for use by cotton breeders and traders
- Specially suited for farmers to gin their seed cotton to prepare pure seeds for sowing purposes.



HIPRO Gin

Salient Features

- Production capacity : 50 to 55 kg seed cotton per hour as input.
- Power required : 3 HP single phase
- High quality lint production with no cut seeds.
- Grease free power transmission system for rollers and beater
- Machine is very sturdy and operator friendly
- Precise Control of roller pressure.
- MS Plates used for side supports impart elegant look.

The manufacturing and trading rights of "HIPRO Gin" have been given by CIRCOT to :

M/s Precision Tooling Engineers

An ISO 9001:2000 Company

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