• Established in 1961 by Bajaj Group of India

• Awarded Largest & Most Modern Cotton Ginning & Pressing Machinery Manufacturer in India.

• The Only Company in the World to have all Ginning Technologies in its bag i.e Saw Gin, Rotary Knife Roto-bar Gins, Double Rollers Gins, Single Roller Gins.

• A Single Stop source for Design, Manufacture, Assembly & Installation of Cotton Gin plants, Delinting and Decorticating plants - IMPCO.

• All Continental Eagle Corporation USA Products world wide including Acid Delinting
INNOVATION TO BUILT COMPETITIVENESS

1. IMPROVING PRODUCTIVITY

2. VALUE ADDITION
I. Adopting latest automation systems available for ginning process which results in to less manpower, Lower production cost, Good clean cotton etc. Following are some of the new systems introduced in the modern ginning

- Dispensing System for feeding of seed cotton at regulated speed to ginning
- Much Improved Double Roller & Saw gin machines.
- Automatic Feeding of Seed Cotton to Double Roller ginning machine
- Intermittent Lint suction system from each Double Roller gin machine, required less power.
- Online Fire Detection and Diversion system
- Automatic Baling Presses for lint pressing

II. Selecting Proper processing technology based on fiber parameters, type of seed, trash content, moisture percentage etc.
A. DELINTING

1. Saw type Mechanical Delinting : –
   • Per machine capacity 1.7Ton/hr.
   • High Capacity – 1st Cut, 2nd Cut & Mill Run
   • Used for oil milling / Solvent extraction / Cattle feed

2. Brush Delinting : –
   • Per machine about 500 Kg / hr.
   • Removes up to 80% Linter.
   • Black Seed used for planting seed with lowest acid consumption or without acid treatment.

3. Diluted Sulphuric Acid Delinting :-
   • Used for high capacity planting seed processing – 1 Ton / hour & above
4. Hydrochloric Acid Delinting :-

• Used for small capacity planting seed processing

5. Gas Delinting :-

• Used for high capacity planting seed processing - Min. 5 Tons / hr.

B. Decortication

C. Cotton Stalk
A. Dispensing System for feeding of seed cotton

Advantages of Dispensing system

• Reduced Manpower requirement
• Continues controlled feeding of seed cotton to ginning machines
• Improved productivity
• Maximum removal of heavy stones and trash
• Opening of seed cotton in the dispenser roller results into better ginning with less stress on ginning machine
I. Double Roller

- Higher production capacity among Double Roller ginning technology with less power consumption per machine
- Better Lint Recovery from Seed
- Suitable for all type of cotton
- Flexibility to install smallest set up (Depend on cotton parameters one Single double roller gin machine can produce 60-100 kg lint per hour with 5 HP power)
- Easy to Operate
- Less maintenance cost
II. Saw Gin

- New Improved 16” dia saw blade with larger exposure to seed cotton for better removal of lint
- Longer Saw life being larger diameter
- Seed Tube technology for better outlet of seed after ginning to allow inflow of fresh seed cotton to achieve production
- Better for short staple cotton
- Easy handling of seed cotton containing trash
- Less space required for medium capacity plant than double roller
C. Automatic Feeding of Seed Cotton to Double Roller ginning machine

- Improved Central Screw Conveyor with twin auto-regulator for automatic feeding of seed cotton to gin machine
- Less power required than earlier individual conveyor for each line of gin machine.
- Controlled feeding of seed cotton compare to manual or central platform feeding.
- Better production as compare to manual or central platform feeding.
- Easy for maintenance
D. Intermittent Lint suction system from each Double Roller gin machine

- New Intermittent lint suction system required less (almost half) electric power than earlier direct lint suction from individual machine.
- Genteel handling of lint as reduction in power, velocity and pressure.
- Cost effective compare to earlier system
- Applicable to smallest to biggest setup.
E. Online Fire Detection and Diversion System

- Detect and divert the fire within shortest cycle time around 300 Milliseconds
- Protect other machines from damage due to fire
- Elimination of human involvement give more effectiveness to the system
- Can restart the plant within short time after detection of fire
F. Automatic Baling Presses for lint pressing.

- Down & up packing bale presses with automatic operating mode from 8 BPH to 80 BPH capacity is available.
- Being Automatic and no manual involvement while running power consumption is lowest.
- Easy for operating being automatic in function.
- No fatigue to operator as he has to just watch the operation and hence continuous operation is possible.
- Uniform bale weight.
Saw type Mechanical Delinting

- Scientific Delinting on standard machines increases value of linter.
- Ready market for linters being almost pure cellulose
- Black seed after Delinting gets better value
- First cut, Second cut, Mill Run Linters all have various applications, hence saleable.
Brush Delinters

- Highest Linter Removal
- Lowest Seed Cut
- Reduces consumption of Acid
- Suitable for cattle feed blending
- High value planting seed
- Flexibility in capacity planning
- Low capital cost
Sulphuric Acid Delinters

- No pollution
- High capacity
- Substitute to gas Delinting
- No gas storage hazards
- No risk in storage of diluted Sulphuric Acid
- Low cost compared to gas delinting
- Flexibility of capacity
A small batch of white cotton seed is filled in a kettle fitted with stirrer and hydrochloric acid is added.

The stirring is done for fixed period

The seed mixed with HCL acid is washed with caustic soda and then by water.

Washed seeds is dried and further processed for planting seed.
Gas Delinters

- High capacity seed processing
- No pollution
• Protein Value of oil cake increases
• Oil crushing / extraction capacity increases
• Cost of extraction is lower
• Realization of value for Hull increases
• Realization value of DOC higher
• Cotton stalk palettes used for domestic cooking / heating

• Cotton stalk particle boards used for furniture & panels

• Cotton stalk briquettes used for power plants
Projects – Installations

600 TPD COTTONSEED PROCESSING PLANT
Zimbabwe

BAJAJ STEEL INDUSTRIES LIMITED
(ISO 9001: 2008 CERTIFIED COMPANY)
200 TPD COTTONSEED PROCESSING PLANT
Gujrat India

BAJAJ STEEL INDUSTRIES LIMITED
(ISO 9001: 2008 CERTIFIED COMPANY)
Present Markets

- Australia
- Asia – Pakistan, China, Vietnam, India
- CIS
- East Africa – Zimbabwe, Tanzania, Uganda, Zambia, Malawi, Mozambique, Kenya, Ethiopia, Egypt, Sudan, Angola
- EU - Greece, Turkey
- South America – Brazil, Argentina, Venezuela
- USA
- West Africa – Mali, Chad, Togo, Benin, Burkina, Ivory Coast, Burundi
• Pre-Engineered Steel Buildings
  Industrial Sheds
  K-Houses
  Moveable Houses
  Parking Lots
  Other Steel Buildings
  Warehouses
  Refuge Houses
  Light Gauge Structures
  High Rise Buildings

• Machined Components
  For Defense Sector
  For Automobile Sector
  For Railways
  For Others

• Electrical Panels
  Intelligent Panels
  Power Control Centers
  Motor Control Centers
  Cables

• Fabrication
Thanks .

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