

Established 1961



BAJAJ STEEL INDUSTRIES LIMITED

AN ISO 9001 : 2015, 14001 : 2015 & OHSAS 45001 : 2018 CERTIFIED COMPANY



'Technical Collaborators – CIRCOT ICAR Govt. of India,
Continental Eagle Corporation USA

Ginning & Pressing Cotton

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Company Introduction Letter

Dear Sir,

Greetings from Bajaj Steel Industries Limited !!!

We Bajaj Steel Industries Limited(BSIL), Nagpur take this opportunity to introduce ourselves as a company that has achieved global proportions in Cotton Ginning and Pressing technology. BSIL Nagpur manufacturing complete range of Cotton Ginning, Pressing, Delinting & Decorticating machinery with over 55 years of experience. BSIL has extended its network in the global market for Cotton ginning and pressing with Engineering excellence, product innovation and providing cost effective solutions to the customers and it has been the integral philosophy of our company.

We also would like to draw your kind attention that BSIL has acquire M/s. Continental Eagle Corporation", USA in 2009. Now in the world we are only manufacturer of all four ginning technologies i.e Single Roller Gin, Double Roller Gin, Saw Gin and Rotobar Gin. We have also expanded our manufacturing facility by setting up modern machineries, professional manpower and technically advance R&D facilities which differentiate us from other manufacturers.

BSIL provide end-to-end solutions starting from design, manufacturing, installation, commissioning and successful execution of the ginning projects on total turnkey basis and after sales service support. For Double Roller Gins, BSIL has established the milestone with over 70000 Double Roller Gins running satisfactorily throughout India and various other countries including Bangladesh, Egypt, Kenya, Madagascar, Malaysia, Myanmar, Nigeria, Pakistan, Peru, south Africa, Tajikistan, Tanzania, Uganda, Zambia, Zimbabwe. We are the largest manufacturer of Double Roller Ginning Technology in the world and one shop solutions to cater the Saw Gins, Delinting & Decorticating solutions.

BSIL also have technical collaboration with Central Institute for Research on cotton Technology (CIRCOT), ICAR, Govt. of India for continuous improvements of Bajaj Cotton Ginning and pressing plant machinery. BSIL is AN ISO 9001 : 2015, 14001 : 2015 & OHSAS 45001 : 2018 CERTIFIED COMPANY certified company and has been granted STAR EXPORT HOUSE. Status by the Ministry of Commerce and Industry, Govt. of India.

Hereby, we request you to give us an opportunity to register our name as an approved vendor and to submit our techno commercial offer for your upcoming projects . It would be indeed our pleasure to get associate with your esteemed organization for future business prospects.

Thanking you and assuring our best attention and support.

BAJAJ SEED COTTON DISPENSING SYSTEM



SEED COTTON DISPENSING FOR HIGHER PRODUCTIVITY

- Robust Construction
- Uniform and adequate feeding at all points
- Optimizes Ginning performance
- Ease of use
- Reduced Manpower Costs
- Made with superior technical know how
- Easily Accommodated in existing Plants

Seed Cotton Dispensing System with Horizontal Pre Cleaner

- Protects fibre quality & Strength
- Reduces Maintenance of Ginning Machines
- Protects Gin from damage by impurities
- Reduce Trash from Seed Cotton



Taper Lock Pulley
for Ease of Maintenance



High Quality Branded Make
Aluminum Body Geared Motor

Seed Cotton Dispensing system with stone removing arrangements

- Less chance of fire in Ginning Machine
- Protect Gin from damage by impurities
- Remove the Stones from Seed Cotton
- Reduce maintenance of Ginning Machine



Trash Chamber with Roll, Jali &
Screw Conveyor for Trash & Pink Boll
worm removal

“Quality is never an accident. It is the result of an intelligent effort.
There must be a will to produce a superior thing.

- JOHN RUSKIN”

**DESIGNED WITH THE USER IN MIND;
OVER 60 YEARS OF EXPERIENCE AT HAND!**

BAJAJ SEED COTTON DISPENSING SYSTEM

TECHNICAL DATA FOR SEED COTTON DISPENSING SYSTEM

Models	TYPE 1	TYPE 2	TYPE 3
Power Required	5 HP + 2HP	5 HP + 2HP	5 HP + 2HP
*Holding Capacity (Kg)	1500	2000	2500
*Feeding Capacity (Kg/hr)	16000	16000	16000
Width	1200 mm	1200 mm	1200 mm
Length	6000 mm	8400 mm	12000 mm
Height	2500 mm	2500 mm	2500 mm
Feeding	Mechanical by Tractor or Other wise	Mechanical by Tractor or Other wise	Mechanical by Tractor or Other wise
Variable Speed	Provided	Provided	Provided

Note: The '★' Parameters may vary based on variety & moisture of seed cotton

SALIENT FEATURES OF SEED COTTON DISPENSING SYSTEM :

- Consistent and Uniform Opening And Feeding.
- Higher Productivity.
- Reduced Manpower cost.

TECHNICAL DATA FOR HORIZONTAL PRE CLEANER & STONE REMOVING ARRANGEMENT

Equipment	Horizontal Pre Cleaner	Stone Remover
Power Required	2HP	3HP
Width	1200 mm	900 mm
Feeding	From Seed Cotton Dispenser	From Seed Cotton Dispenser
Variable Speed	Provided	Provided

SALIENT FEATURES OF HORIZONTAL PRE CLEANER ARRANGEMENT :

- Improves the quality of Lint.
- Lesser Trash content in raw cotton.
- Lesser Contamination of Seed Cotton.

SALIENT FEATURES OF STONE REMOVING ARRANGEMENT :

- Avoid chance of fire in Gin machine.
- Reduce Maintenance of Ginning Machine
- Remove the stone from seed cotton.

ACCESSORIES WITH SYSTEM: High quality sensors, Machine console with variable drive.

OPTIONAL SUPPLY:

- Foundation bolts.
- Tractor attachment for feeding.
- Complete range of spares.

BAJAJ GINNING EQUIPMENTS & SYSTEMS

Double Roller Cotton Gin~Auto Feeder~Pre Cleaner~Lint Cleaner~Seed Cotton Opener & Cleaner~Pneumatic Conveying and Distribution System of Unginned Cotton for Automatic Plants~Belt Conveyors & Pneumatic Conveying System for Cotton Lint~Cottonseed Conveyors, Elevators~Electricals and Cotton Baling Presses.

ALWAYS USE

BAJAJ GENUINE SPARE PARTS FOR HIGHER QUALITY OUTPUT & BETTER LIFE OF MACHINE

Note : Features shown do not necessarily show the machine / equipments in it's standards form. In view of our policy of continuously improving our products, we reserve the right to alter specifications or designs without prior notice & without liability .



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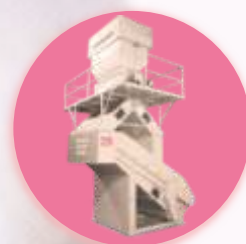




BAJAJ SEED COTTON PRE CLEANERS

CLEAN COTTON; HIGH PROFITS !

- Protects fibre quality
- Cleans gently and efficiently
- Optimizes ginning performance
- Robust construction; longer life
- Protects gin from damage by impurities
- Made with superior technical know how
- Reduces maintenance of gin machines
- Technical collaboration with CIRCOT



With Air Separator & Bypass



With Feeding Belt



With Manual Feeding Hopper



4 Cylinder Pull Through Type Pre Cleaner

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BAJAJ SEED COTTON PRE CLEANERS

TECHNICAL SPECIFICATION

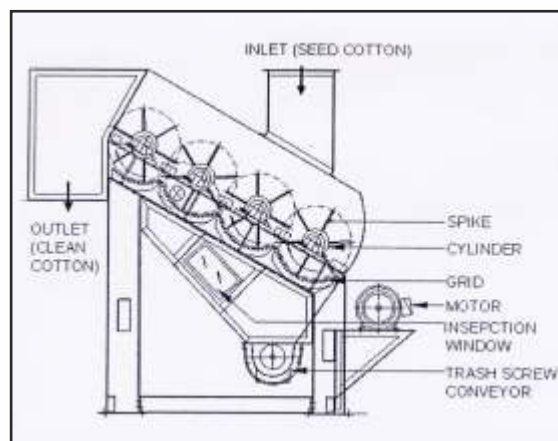
	Model-I	Model-II
No. of cleaning cylinders	Four	Six
Width	1200/1500/1800/2100/2400 mm	1200/1500/1800/2100/2400 mm
Seed Cotton cleaning capacity per hour	3500/4500/6000/7500/10320 Kgs	3500/4500/6000/7500 Kgs
Power required (max)	5/7.5/10/10/12.5 HP	7.5/7.5/10/12.5/12.5 HP
Wheel mounting (optional)	Yes	Yes
Feeding System	Automatic - by Pneumatic suction / Belt Conveying System / by Hand / other Mechanical Systems	Automatic - by Pneumatic suction / Belt Conveying System / by Hand / other Mechanical Systems

Note: For better cleaning and low trash contents in seed cotton always use pre cleaner with Rotary Air Lock i.e. pull through type pre cleaner. The degree of cleaning depends on number of beater rolls, 4 rolls are standard and we can provide 6 rolls on customer request.

SALIENT FEATURES :

- Protects fibre quality.
- Cleans gently and efficiently.
- Optimizes ginning performance.
- Robust Construction & better life.
- Protects gin from damage by impurities.
- Made with superior technical know how.
- Reduces maintenance of ginning machines.
- Removes yellow / pre matured bolls, trash stones and others impurities from seed cotton, thereby improving the quality of seed cotton prior to ginning.
- Increases productivity of ginning machines.
- Reduces load on ginning machines.
- Auto feeding made easy and trouble free.
- Auto feeder maintenance reduced to minimum.
- Better quality of lint yields higher returns
- Considerable saving in labour cost
- Available in different models with different feeding systems for specific requirements.
- All models can also be wheel mounted for easy mobility.

SCHEMATIC DIAGRAM



BAJAJ GINNING EQUIPMENTS & SYSTEMS

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CONTINUOUS & UNIFORM FEEDING OF SEED COTTON TO EACH GIN MACHINE FOR HIGHEST PRODUCTION

- Continuous feeding with reservoir
- Robust Construction
- Long life
- Maintenance free
- Uniform and adequate feeding at all points
- Ease of use
- Protects fibre quality
- Made with superior technical know how



Typical Arrangement of Central Screw Conveyor System



Typical Arrangement of Screw Conveyor System with Single Auto regulators for Feeding each Gin Machine



Twin Auto Regulator for Dividing Feed to Two Gin Machines



Separation of small size Stone, Sand and Kaudi by Application of Capsule Jali with G.I. Reducer



Single Auto regulators Connected with Auto Feeder over Gin Machine Sensor

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BAJAJ SEED COTTON DISTRIBUTION SCREW CONVEYOR

TECHNICAL SPECIFICATION FOR SCREW CONVEYOR

Models	16"	18"
Power Required	5HP/7.5HP/10HP	7.5HP/10HP
Capacity (Kg/hr)*	10,000	13,500
Feeding	Pneumatic / Belt Conveyor	Pneumatic / Belt Conveyor
Material Dropping	Regulated feed to gins by Sensorised Auto Regulators - Single & Advance (Twin type)	Regulated feed to gins by Sensorised Auto Regulators - Single & Advance (Twin type)

TECHNICAL SPECIFICATION FOR AUTOREGULATOR

Connected total power (HP) all models	0.04
Reservoir Capacity (Kgs/Hr) of Seed Cotton*	14

Note: The '*' Parameter may vary based on variety and moisture of Seed Cotton

FEATURES & BENEFITS OF SCREW CONVEYOR

- Available in various sizes upto 450 mm diameter.
- **Continuous Helicoids** of high quality carbon steel has smooth flow of seed cotton with no sharp edges.
- All rotating parts are provided with precision bearing to reduce friction for optimum efficiency.
- All rotating parts are precision machined using advanced manufacturing process on CNC machines providing best finish and tolerances to enhance life of the machine & minimizes the down time.
- Mechanism requiring lower periodic maintenance & setting of the machine.
- Bearings are enclosed in bracket housing with dust proof covers thus enhancing the life.
- Designed for optimum feeding and carrying of material to machine or for bagging.
- Reduces man power in the process.

FEATURES & BENEFITS OF AUTO REGULATORS

- Programmed to ensure continuous feeding to Gins for greater productivity.
- Variable Feed Rates for specific requirements.
- Supplied with high quality electrical accessories and **hermetically sealed sensors** for efficient performance.

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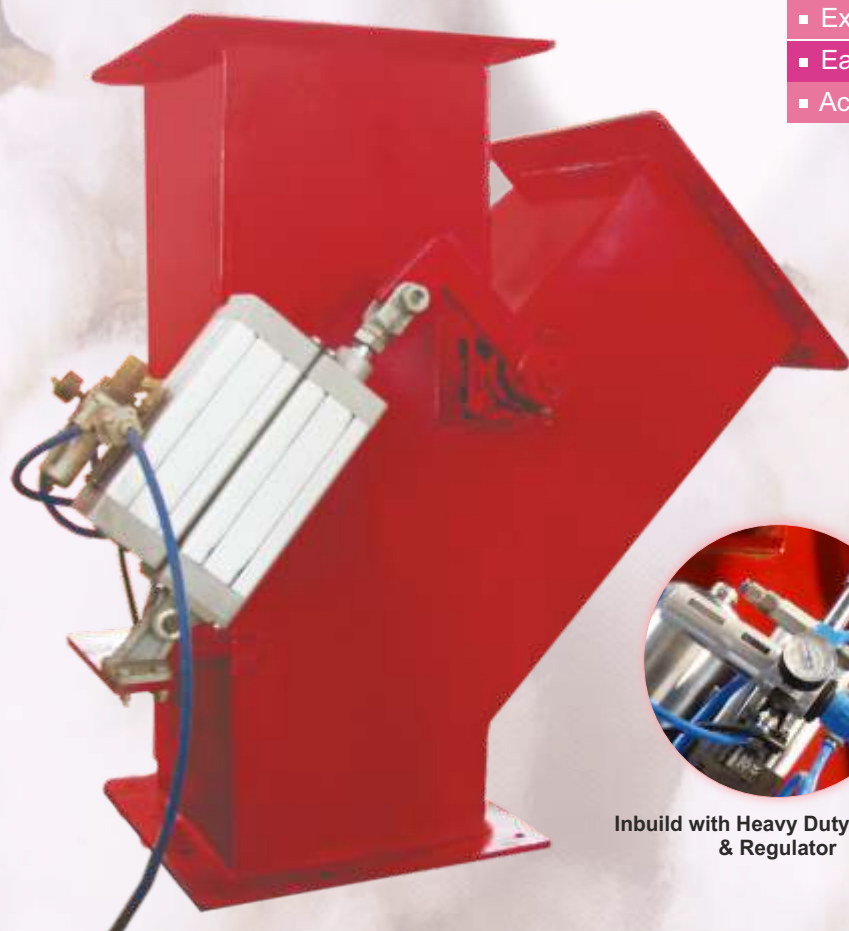
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NEW DIMENSION TO PREVENT FIRE BY PROTECTION MEASURES

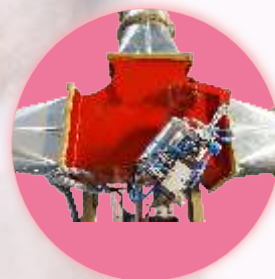
- Dependable Operations
- Minimizes losses
- German technology
- Easy cleaning arrangement for sensors
- Downtime is reduced to minimum
- Extinguishes Hazards without stopping Production
- Easy installation
- Actuates at least once even in power failure



Fire Detecting High Quality Ultraviolet (UV) Sensors with Housing Mounted on Pneumatic Suction Line



Inbuilt with Heavy Duty Air Filter & Regulator



Heavy Duty Quick Action Fire Diverter Mounted on Pneumatic Suction Line



Pneumatic Cylinder with extra Air Reservoir for one time safe operation once change without supply of Pneumatic Air

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Installation of fire detection and diversion system is better than fire hazard & loss due to it. Installation cost is recovered even in SINGLE fire prevention

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BAJAJ FIRE DETECTION & DIVERSION SYSTEM

TECHNICAL DATA OF FIRE DETECTION & DIVERSION SYSTEM FOR GINNING & PRESSING PLANT

Spark Detection	Less Than 8 milli seconds
Output Signal to Relay	24 milli Seconds
Relay Response	Less Than 10 milli seconds
Initiate Alarm & Diversion	Less Than 34 milli seconds
Stops Fan	Less Than 50 milli seconds
Diverter Opening Cycle time	Less Than 250 milli seconds
Detection to Diversion time	Around 300 milli seconds
Distance between Detector & Diverter	Around 7 Meter
Operating Temperatures	- 40° to 60° C
Detects Sparks at Speeds	Upto 50 m / sec.

ACCESSORIES SUPPLIED WITH SYSTEM:

A large capacity fan is provided to create sufficient air pressure to trap the fired material, Hooter / Fire alarm, Pneumatics to actuate diverter, Electrical panel with timers.

OPTIONAL SUPPLY:

Air compressor, Pipe line & accessories for air, Foundation Bolts, Platform Structure, Complete range of spares, Electrical Motor & Electricals.

SALIENT FEATURES :

- Minimizes losses which may be caused by fire.
- Spark detection, burning or flame detection response time is very quick.
- Extinguishes hazards without stopping production.
- User friendly
- Can be easily accommodated into existing production lines with very small or no changes.
- Sensors are very easy to clean and hence specialized manpower not needed to run this system.



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NEW GENERATION

BAJAJ DOUBLE ROLLER (DR) GINNING MACHINE MODEL : MAGNUM WITH AUTOFEEDER

**HIGHEST STRENGTH COTTON GINNING MACHINE
HAVING HIGHEST OUTPUT PER HOUR FOR SAME SIZE DR**



DR Gin with Self Feeder



DR Gin with Seed Conveyor



DR Gin with Doffer Roller



DR Gin without Seed
Collection Tray

Why MAGNUM DR ?

- Increased leather roll diameter
- 14 sealed / Pre greased bearings
- Only 3 greasing points
- Improved beater housing for easy setting
- Adequate weights on leather roll for higher production
- Maximum strength to Gin upto 50 G/Tex cottons
- Use of superior material for highest strength of spare parts
- About 50% lower vibration
- Magnum Machine design is compatible for use of normal greasing bearing as all 2RS bearing area has provision for fitment & use of normal greasing bearing (in emergency case)

- Highest production in same size DR Machines
- Less Power Consumption per unit of production
- One to one replacement on Golden Jubilee/ Ultra models
- Less man power as less greasing points
- Longer wear life of leather roller
- Interchangeability of spares
- Significantly higher profits
- Robust body
- Simple operations
- Lustrous lint fiber production Machine
- Improved autofeeder for better performance
- Prompt after sales service

DESIGNED WITH THE USER IN MIND; OVER 60 YEARS OF EXPERIENCE AT HAND!

BAJAJ DOUBLE ROLLER (DR) COTTON GIN **MAGNUM**

Gin Machine	Details	Autofeeder	Details
M/C Bolt Centre	1637x760 mm	RPM	35 - 40
M/C Centre (min.)	2637 mm	Feeding System	Mechanical/ Pneumatic Manual
Production capacity (Lint)*	95 to 140 Kgs/Hr	Bearings (Sealed)	14
Processing Capacity (R/C)	265 to 430 Kgs/Hr	Lubrication/(Grease)	20 Gms/ 8 hrs
Electric Motor	5 H.P. 132 M Frame	Storage Capacity	45-60 kgs
Flat Length	1521 mm	Note: 1. Production capacity depends on Raw Cotton Quality/ Grade 2. Always use branded high quality multipurpose Grease for lubrication	
Space b/w Row (min. c/c)	3660 mm		
Operating Speed	950 /1000 RPM		
Driving V-Belts	2 Nos. 'B' Section		
Bearings (Need Lubrication)	7 Nos.		
Bearings (Lubrication Free)	14 Nos.		
Lubrication (Grease)	75 Gms/8 Hr		
Gears	Helical		
Seed Discharge	Slides / Vertical		
Removal of Cotton Lint	Front & Rear		
Min Distance B/w M/c	1000 mm		
Rotation of Machine Pulley	Clockwise		

ACCESSORIES : Box Spanner, M12 & M16, T Spanner M10, 1 / 8" BSP Threaded T Spanner, Beater Adjustment Gauge.

OPTIONAL SUPPLY : Foundation Templates, Foundation Bolts, Motor Rails, Motor Pulley, Guard For Pulley, V Belts, Seed Screw Conveyor, Roll Press, Roll Cutting Stand, Cotton Bag, Weighing Stand, Lint Filling Platform, Bus Bar Panel With All Required Fittings, Platform Structure, Complete Range Of Spares, Doffer Roller Assembly, Automatic Roll Grooving Machine, Electrical Motor & Electricals.

BAJAJ DR : A PROFIT GIN

- Protects Fibre Quality; Gives Production of Clean; Lustrous Cotton Lint.
- Works efficiently; reduces cost and adds to profitability.
- Engineering experiences and expertise combined to ensure lowest operational and maintenance cost.
- Consumes less power.

BAJAJ DR : HIGH QUALITY AND HEAVY DUTY GIN

- All gears, connecting rod, head, beater arm, swing lever etc. are made of high Nodularity ductile iron.
- All rotating parts are provided with precision bearings to reduce friction for optimum efficiency.
- Connecting housing is provided with heavy duty self aligning roller bearing.
- Leather roller shafts are interchangeable and if one side of the roller is worn out, It can be reversed.
- Lint output remains uniform on full length of the rollers.
- Moving parts are housed in dust proof gear box for smooth running.
- Lubrication is pressure fed, dust proof greasing system.
- Special hardened bushes for weight levers and swing levers ensure smooth working of gin.

BAJAJ DR : MOST RELIABLE GIN

- Over 100,000 gins of different models are in efficient operation in India & Abroad.
- Fully backed by after sales services, provided by team of trained and Competent engineers.
- High quality replacement parts and spares available at all times.

FEATURES :

- Lowest power consumption per quintal lint ginned.
- Fully machined dynamically balanced fly wheel / machine pulley.
- All rotating parts are precision machined using advanced manufacturing process on CNC machines providing best finish & tolerances to provide enhanced life of the machine & zero down time.
- Mechanism requiring lower periodic maintenance & setting of the machine.

Lint productivity is depended on the quality of seed Cotton, input Voltage, period of Ginning, Atmospheric condition, setting of machines, maintenance of machine

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LOW MAINTENANCE BAJAJ DOUBLE ROLLER (DR) GINNING MACHINE MODEL : TEJAS WITH AUTOFEEDER

**HIGH STRENGTH COTTON GINNING MACHINE
WITH OPTIMUM OUTPUT**



DR Gin with Self Feeder



DR Gin with Seed Conveyor



DR Gin with Doffer Roller



DR Gin without Seed
Collection Tray

Why TEJAS DR ?

- | | |
|--|---|
| ■ Provision for Increased leather roll diameter | ■ Less Power Consumption per unit of production |
| ■ 16 sealed / Pre greased bearings | ■ One to One replacement on Jumbo/ Super / Platina models |
| ■ Only two greasing points | ■ Less man power as less greasing points |
| ■ Robust Box type beater housing for easy setting | ■ Longer wear life of leather roller |
| ■ Maximum strength to Gin upto 50 G/Tex cottons | ■ Interchangeability of spares |
| ■ Adequate weights on leather roll for higher production | ■ Significantly higher profits |
| ■ Use of superior material for highest strength of spare parts | ■ Robust body |
| ■ About 50% lower vibration | ■ Simple operations |
| ■ Improved Seed Channel Design | ■ Lustrous lint fiber production Machine |
| ■ Improved Hopper Sheet Design | ■ Improved auto-feeder for better performance |
| ■ Powder coating on Auto Feeder Assembly | ■ Prompt after sales service |

DESIGNED WITH THE USER IN MIND; OVER 60 YEARS OF EXPERIENCE AT HAND!

BAJAJ DOUBLE ROLLER (DR) COTTON GIN TEJAS

GIN MACHINE	DETAILS	AUTOFEEDER	DETAILS
M/C Bolt Centre	1477 x 760 mm	R.P.M.	35 - 40
M/C Centre (min.)	2357 mm	Feeding System	Mechanical / Pneumatic / Manual
Production Capacity (Lint)*	65 TO 105 Kgs/Hr	Bearings (Sealed)	10 Nos. (Lubrication Free)
Processing Capacity (R/C)*	200 to 265 Kgs/Hr	Bearings (Sealed)	4 Nos. (Need Lubrication)
Electric Motor	5 H.P. 132 S Frame	Lubrication (Grease)	20 Gms/8 Hrs
Flat Length	1361mm	Storage Capacity	42 - 55 kg
Space b/w Row (min. c/c)	3350 mm		
Operating Speed	950 / 1000 RPM		
Driving V-Belts	2 Nos. 'B' Section		
Bearings (Need Lubrication)	5 Nos.		
Bearings (Lubrication Free)	16 Nos.		
Lubrication (Grease)	75 Gms/8 Hrs		
Gears	Helical		
Seed Discharge	Vertical		
Removal of Cotton Lint	Front & Rear		
Min Distance B/w M/c	880 mm		
Rotation of Machine Pulley	Clock wise		

Improved design better performance

Note:

1. Production capacity depends on Raw cotton Quality / Grade

2. Always use branded high quality multi purpose Grease for lubrication

ACCESSORIES : Box Spanner, M12 & M16, T Spanner M10, 1 / 8" BSP Threaded T Spanner, Beater Adjustment Gauge.

OPTIONAL SUPPLY : Foundation Templates, Foundation Bolts, Motor Rails, Motor Pulley (6" 2B and 6"- 5 3/4" 4B), Guard For Pulley, V Belts, Seed Screw Conveyor, Roll Press, Roll Cutting Stand, Cotton Bag, Weighing Stand, Lint Filling Platform, Bus Bar Panel With All Required Fittings, Platform Structure, Complete Range Of Spares, Doffer Roller Assembly, Automatic Roll Grooving Machine, Electrical Motor & Electricals.

BAJAJ DR : A PROFIT GIN

- Protects Fibre Quality; Gives Production of Clean; Lustrous Cotton Lint.
- Works efficiently; reduces cost and adds to profitability.
- Engineering experiences and expertise combined to ensure lowest operational and maintenance cost.
- Consumes less power.

BAJAJ DR : HIGH QUALITY AND HEAVY DUTY GIN

- All gears, connecting rod, head, beater arm, swing lever etc. are made of high Nodularity ductile iron.
- All rotating parts are provided with precision bearings to reduce friction for optimum efficiency.
- Connecting housing is provided with heavy duty self aligning roller bearing.
- Leather roller shafts are interchangeable and if one side of the roller is worn out, It can be reversed.
- Lint output remains uniform on full length of the rollers.
- Moving parts are housed in dust proof gear box for smooth running.
- Lubrication is pressure fed, dust proof greasing system.
- Special hardened bushes for weight levers and swing levers to ensure smooth working of gin.

BAJAJ DR : MOST RELIABLE GIN

- Over 100,000 gins of different models are in efficient operation in India & Abroad.
- Fully backed by after sales services, provided by team of trained and Competent engineers.
- High quality replacement parts and spares available at all times.

FEATURES :

- Lowest power consumption per quintal lint ginned.
- Fully machined dynamically balanced fly wheel / machine pulley.
- All rotating parts are precision machined using advanced manufacturing process on CNC machines providing best finish & tolerances to provide enhanced life of the machine & zero down time.
- Mechanism requiring lower periodic maintenance & setting of the machine.

Lint productivity is depended on the quality of seed Cotton, input Voltage, period of Ginning, Atmospheric condition, setting of machines, maintenance of machine

BAJAJ GINNING EQUIPMENTS & SYSTEMS

Double Roller Cotton Gin~Auto Feeder~Pre Cleaner~Lint Cleaner~Seed Cotton Opener & Cleaner~Pneumatic Conveying and Distribution System of Unginned Cotton for Automatic Plants~Belt Conveyors & Pneumatic Conveying System for Cotton Lint~Cottonseed Conveyors, Elevators~Electricals and Cotton Baling Presses.

ALWAYS USE

BAJAJ GENUINE SPARE PARTS FOR HIGHER QUALITY OUTPUT & BETTER LIFE OF MACHINE

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AN ISO 9001 : 2015, 14001 : 2015 & OHSAS 45001 : 2018 CERTIFIED COMPANY



BAJAJ BUCKET ELEVATORS



- Robust construction
- Completely enclosed for dust free operation
- Low maintenance
- Made with superior technical know how
- Simple Operation

“Quality is never an accident. It is the result of an intelligent effort. There must be a will to produce a superior thing.”

- JOHN RUSKIN

**DESIGNED WITH THE USER IN MIND;
OVER 60 YEARS OF EXPERIENCE AT HAND!**



Manufactured in Technical Collaboration With Central Institute for Research on Cotton Technology (CIRCOT), ICAR, Govt. of India.

BAJAJ BUCKET ELEVATORS

TECHNICAL SPECIFICATION

	Model I - 5 TPH	Model II - 10 TPH	Model III - 15 TPH
Cotton Seed Quantity in Kg/hr.	5000	10000	15000
Power Consumption	3 HP	5 HP	7.5 HP
Bucket Size (Metal one piece Bucket)	8"	10"	16"
Type	Belt with bucket	Belt with bucket	Belt with bucket

Note: 1) BSIL can also supply non metal buckets like plastic & chain type Bucket Elevator drive setup if required by the customer.
2) Higher capacity bucket elevators are also available from BSIL as per plant configuration.

Bajaj Bucket Elevator are ideally suited to elevate bulk materials from sluggish to free flowing vertically.

Bajaj Bucket Elevator consists of rectangular rigid mild steel housing with a tangential inlet in the bottom section and rigid **seamless mild steel bucket** mounted on open ended belts. These are **anti static oil repellent** in nature. The drive unit comprises of an electrical motor coupled to reduction gear box mounted on the maintenance platforms attached to the top section.

BENEFITS :

- Considerable saving in labor cost.
- Available in different models for specific requirements like bagging, transferring to conveyors etc.
- Bucket design ensures maximum fill in buckets and prevent discharge interface with proceeding bucket while in operations.
- Effective inspection windows on intermediate section.
- Easy installation facilitated due to quick connection between components.
- Precise machined head and tail pulleys to facilitate better belt movement.
- Easily operated adjustment devices.

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BAJAJ LINT CLEANERS

CLEAN COTTON; HIGHER PROFITS !

- Protects fibre quality
- Cleans gently and efficiently
- Reduces trash content
- Removes seed coats, leafy matter, short fibres, microdust etc. from ginned lint.
- Improves lint grade & appearance.
- Robust construction; longer life.
- Made with superior technical know-how.



With One Nail Opener Roll and Capsule Jali for Better Trash Separation



With Separate Drive Feeder Roll



6 Cylinder Lint Cleaner



With Air Separator & Bypass

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BAJAJ LINT CLEANERS

TECHNICAL SPECIFICATION

	Model-I	Model-II
No. of Nail Opener Cylinder	1	1
No. of Cleaning Cylinders	Three	Six
Width	1200/1500/1800/2100 mm	1200/1500/1800/2100 mm
Type	Inclined	Inclined
Cleaning Capacity (Lint)	1200/1500/1800/2100 Kg/Hr	1200/1500/1800/2100 Kg/Hr
Power Required	5 HP or 7.5 HP + 2HP	5 HP or 7.5 HP + 2HP
Bypass Arrangement	Provided	Provided
Wheel Mounting (Optional)	Yes	Yes
Feeding System	Automatic - Pneumatic / Belt Conveying System or Manual	Automatic - Pneumatic / Belt Conveying System or Manual

***Note: If required BSIL can supply below customized configuration of beater roll & grid**

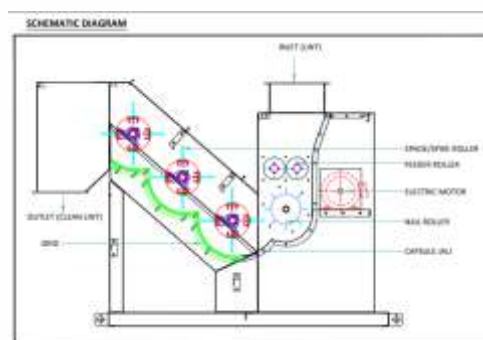
- 1) Beater roll :- a) Spike type b) Spade type c) Leather strip type
- 2) Grid :- Different cross section & grid inter space clearance.

CONSTRUCTION :

Steel construction with CI spades / MS forged spikes / Special steel saws supported by Bearing Housing Unit complete with Trash Collection Box, Base Frame, Cylinders, Feeder Rollers and Drive arrangements.

SALIENT FEATURES :

- Removes seeds cuts, leafy matter after ginning.
- Improves lint grade & appearance.
- Reduces trash content & other contamination.
- Eliminates micro dust effectively.
- Precise design of spikes/ spades/ saws & grid system preserve fibre properties.
- Removes short fibre clusters from ginned lint.
- Better quality lint yields higher returns.
- Easy to maintain; Low maintenance cost.
- Available in different models with different feeding systems for specific requirements.
- Can be incorporated in pneumatic conveying system for online cleaning.
- Considerable saving in labour cost.
- Can be incorporated in pneumatic conveying system for online cleaning.
- Considerable saving in labour cost.
- Inbuilt by pass enables the option to bypass the cleaner when not required (Maintenance).
- All models can also be wheel mounted for easy mobility for manual cleaning.



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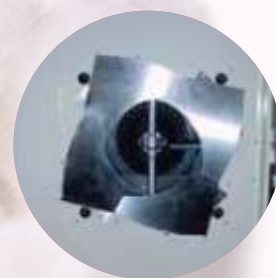
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MOISTURE RESTORATION FOR HIGHER PROFITABILITY

- Instant / Online Humidification
- Reduces pressing force
- Reduces power cost per bale
- Improves lint grade & appearance
- High quality construction for longer life
- Improves fibre parameters



Air Inlet screen



Burner Head



Internal View of Lint Slide
For Humidification

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BAJAJ HUMIDIFICATION SYSTEM

Humid Air Humidification system is being successfully used world-wide including developed Country like USA. This is a unique device manufactured by Bajaj Steel Industries Limited at par with world best technology available for moisture restoration in cotton lint applying psychometric principles. It is a Humidifier for generation of Humid hot air free from water droplets. The vapour phase transfer of moisture at the diffuser assures controlled and positive enhancement of moisture content in lint to highest acceptable level, as per international standard. This reduces pressing force of bale press resulting in lower power consumption per bale.

TECHNICAL DATA

Evaporation Capacity (Max)	: 4.08 Litres/Minute
Evaporation Capacity (Typical)	: 2 Litres/Minute
Fresh Water Requirement	: 14 Litres/Minute
Maximum moist air CFM	: 1000 CFM
Heating Efficiency	: 1290 Btu/pound of water evaporated
Water Purge Rate (Typical)	: 0.45 Litres/Minute
Fuel Requirement	: Diesel (HSD)
Std Electrical Power configurations	: 230 V /50 Hz
Maximum Burner Output	: 2,00,000 K Cal/hr
Typical Burner Output	: 1,00,000 K Cal/hr
Fuel consumption (Max.)	: 20 Litre/hr
Fuel consumption (Typical)	: 10 Litres/hr (for a typical press of 20 BPH)
Nozzle / Piping materials	: Stainless Steel
Combustion Controls	: Internal to Burner assembly
Air Temperature Controls	: User set point PID controlled by Burner
Water Temperature Control	: Manual Valve
Purge System	: Manual

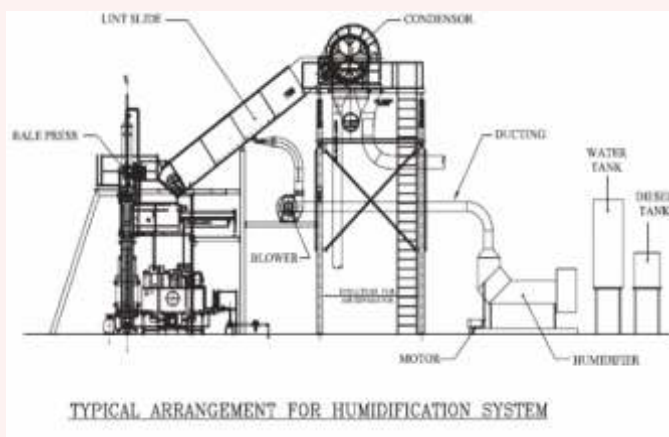
ACCESSORIES SUPPLIED WITH SYSTEM:

A Large capacity fan to create sufficient air pressure to induct moist air in the system & recycle it, SS Louvers for the lint slide, PU coated hood for the lint slide, Kicker roller for the lint slide with drive arrangement, Required ducting for the connections, diesel tank.

OPTIONAL SUPPLY: Water tank of capacity 10,000 liters, Platform Structure, Complete range of spares.

SALIENT FEATURES :

- Instant humidification by easing out wax surface of the fibre and recuperation after humidification by cooling effect for retained moisture.
- Preserves fiber length, improves strength and uniformity and reduces short fiber content.
- Eliminates moisture condensation which is a general problem with all other moisturisation techniques.
- Increases the lint slide capacity and allows more cotton to enter the press box at each stroke of the tramper and hence higher density bale is obtained.
- Improves the capacity of the bale press whereas dry cotton requires higher compression forces and more time to charge and compact it into the press box.



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BAJAJ BATTERY CONDENSER

**BAJAJ BATTERY CONDENSER PRODUCES BEST
LINT BALE CUT SAMPLE LOOK AND LINT BATT**

- Optimizes pressing performance
- Made with superior technical know how
- Robust Construction
- Protects fibre quality



**Condenser Assembly Mounted
Over Bale Press**



**Unique Feature of Condenser
Farming Lint Bat which gives better
Lint Bale Cut Sample Look**



**Lots of Seed Cut's Get Dropped before
passing to Baling Press**

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BAJAJ BATTERY CONDENSER

TECHNICAL SPECIFICATION

Capacity / hour (Avg)	8000 kgs of lint
Power (Max)	5 HP, 1440 RPM
Speed	1440 RPM
Height	2300 mm
Width	2250 mm
Length	2180 mm
Drum Diameter	1500 mm

FREE ACCESSORIES : Doffing Roller - 1 set.

OPTIONAL ACCESSORIES : I) VFD drive for 5HP motor
II) Panel for VFD

SALIENT FEATURES :

- Even formation of the lint batt for the press.
- Drum peripheral speed could be varied to match Gin capacity using VFD.
- All rotating parts are provided with anti friction bearings for optimum efficiency.
- Easy to maintain; Low maintenance cost.
- High quality wooden rafters for doffing rollers adds to the life of roller.
- High density Nylon gears used for motion transmission reduces maintenance and optimize smooth functioning.
- Swinging arms provided to all 4 rollers reduce the thrust and allow better compression of all density lint.
- Special grid at the bottom of drum separates heavy particles / seeds from the Lint.

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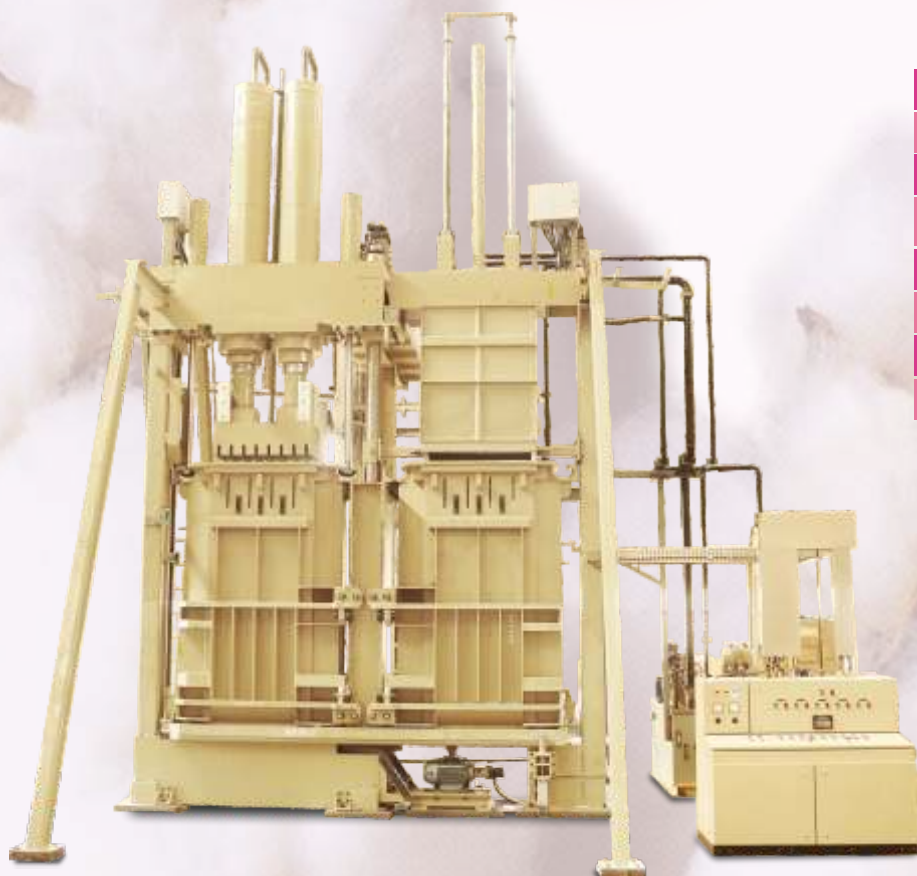
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COTTON BALING PRESSES TO REVOLUTIONISE COTTON BALING



- High capacity (30, 35, 45, 60 Bales / Hr)
- Medium Capacity (10, 15, 20, 25 Bales / Hr)
- Small Capacity (5, 8 Bales / Hr)
- Fully automatic / Semi automatic
- High/Universal Density Bales
- Down Packing
- Most Profitable
- Lowest cost per Bale



**Heavy Duty Industrial
Cooling Tower**



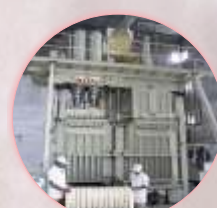
**Heavy Duty Industrial
Heat Exchanger**



Hydraulic Power-pack



**Tramper And
Lint Slide On Press**



**Medium Capacity
Double Box Press
(Without Bale Handling)**

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BAJAJ DOWN PACKING COTTON BALING PRESSES

TECHNICAL SPECIFICATIONS		DOUBLE BOX					SINGLE BOX	
Production Capacity (Bale/hr)*		10	15	20	25	30	5	8
Required Power (HP)	Main Pressing	25	30	60	75	75	40	40
	Tramper	15	15	15	15	30	-	-
	Cooling Arrangement	5	5	5	5	8	5	5

Double Box Down Packing Presses are available upto 60 Bales /Hr

SIZE OF MACHINE	HIGH CAPACITY UPTO 30 BPH	MEDIUM CAPACITY 10-25 BPH	SMALL CAPACITY 5-8 BPH
Length	4800 mm	4800 mm	2400 mm
Width	4200 mm	4200 mm	4200 mm
Height	8000 mm	8000 mm	8000 mm
Box Size	All Standard Box Sizes	All Standard Box Sizes	All Standard Box Sizes
Bale Density	High or Universal Density	High or Universal Density	High or Universal Density
Shed Size	16 M X 12 M X 12 M height	12 M X 12 M X 12 M height	9 M X 12 M X 12 M height
Operating	By PLC Panel Fully Automatic	By PLC Panel Fully Automatic	By PLC Panel Fully Automatic
Tramper	Hydraulic	Hydraulic	Hydraulic
Fiber Pusher	Hydraulic (High Speed)	Hydraulic (High Speed)	Hydraulic

TECHNICAL FEATURES

Auto Bale Ejection	Provided	Optional	Optional
Online Bagging	Provided	Optional	Optional
Online Weighing	Provided	Optional	Optional
Online Sampling	Optional	Optional	Optional
Safety Mats	Optional	Optional	Optional
Lint Slide with SS Louvers (For any kind of humidification)	Optional	Optional	Optional
Lint Slide without Louvers (For systems without humidification)	Optional	Optional	Optional
Doors	Doorless	Doorless	With Door

* Depends on Raw Cotton Quality / Grade. STANDARD BALE SIZE : 42x21, 48X18, 54X21, CIS COUNTRY

SALIENT FEATURES :

- High Capacity / Medium Capacity / Small Capacity.
- Fully Automatic / Semi Automatic.
- High / Universal Density Bales.
- Most Profitable.
- International Specifications.
- Highest Work Safety .
- Lowest Power Consumption Per Bale.
- No need of pit
- Lowest maintenance.
- Heavy duty industrial cooling tower is use to counter cooling of water which is use for oil cooling of bale press.
- Application of heavy duty industrial heat exchanger for oil cooling of bale press
- Lowest manpower requirements.
- Heavy duty structure for longer life.
- High pressure power pack of World Class Technology.
- Door less mechanism in double box presses.
- Down packing, no underground pit.
- High speed automatic revolving of boxes in double box presses
- Ours over 650 Bajaj Bale Presses are working across the globe including developed countries like USA.
- World largest & variable (Up and Down) model Bale Press indigenous manufacturer.
- Application of heavy duty industrial hydraulic oil, cooling system ensure long life of all hydraulic components & best performance for long life.

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BAJAJ UP PACKING COTTON BALING PRESS

COTTON BALING PRESS OF ECONOMICAL TYPE



**Revolving Platform
Up Packing Baling Press**

- High Capacity (35 Bales / Hr)
- Medium Capacity (25 Bales / Hr)
- Small Capacity (10 Bales / Hr)
- Fully automatic / Semi automatic
- High/Universal Density Bales
- Most Profitable
- Lowest cost per bale



**Heavy Duty Industrial
Cooling Tower**



**Heavy Duty Industrial
Heat Exchanger**



**Up Packing Baling Press
Hydraulic Power Pack**



**Up Packing Baling Press
Bale Handling And Bagging Unit**

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BAJAJ UP PACKING COTTON BALING PRESS

TECHNICAL SPECIFICATIONS

Production Capacity (Bale/hr)*		35	25	15	10
Required Power (HP)	Main Pressing	50 + 40 HP	50 HP	40 HP	30 HP
	Tramper	30 HP	15 HP	15 HP	10 HP
	Rotation	3 HP	3 HP	3 HP	3 HP
	Cooling Arrangement	2 + 5 HP	2 + 3 HP	2 + 3 HP	2 + 3 HP
SIZE OF MACHINE ABOVE GROUND		HIGH CAPACITY	MEDIUM CAPACITY	SMALL CAPACITY	
Length		5000 mm	5000 mm	5000 mm	
Height		5200 mm	5200 mm	5200 mm	
SIZE OF MACHINE BELOW GROUND					
Length		4800 mm	4800 mm	4800 mm	
Width		4800 mm	4800 mm	4800 mm	
Depth		4040 + 3270	4040 + 3270	4040 + 3270	
Box cross section size		Standard	Standard	Standard	
Bale density		High / universal	High / universal	High / universal	
Min Shed size*		14 m x 9 m x 7 m Height	14 m x 9 m x 7 m Height	14 m x 9 m x 7 m Height	
Operating		By PLC Panel	By PLC Panel	By PLC Panel	
Tramper		Hydraulic	Hydraulic	Hydraulic	
Fiber Pusher		Hydraulic	Hydraulic	Hydraulic	
TECHNICAL FEATURE					
Online Bagging		Optional	Optional	Optional	
Online weighing		Optional	Optional	Optional	
Online sampling		Optional	Optional	Optional	
Safety mats		Optional	Optional	Optional	
Lint slide with SS louvers		Optional	Optional	Optional	
Lint slide without louvers		Optional	Optional	Optional	
Doors		Door less	Door less	Door less	

*Depends on Raw cotton quality / strapping time / factory practices / Bale weights = 170 Kgs
Standard Bale size 48 X 18, 42 X 21, 54 X 21

SALIENT FEATURES :

- High capacity / Medium Capacity / Small capacity.
- Fully Automatic / Semi Automatic.
- High / Universal Density Bales.
- Most Profitable.
- International / Indian specification.
- Highest work safety.
- Lowest cost per bale.
- Lowest power consumption per bale.
- Heavy duty industrial cooling tower is use to counter cooling of water which is use for oil cooling of working oil of Bale Press.
- Application of heavy duty industrial heat exchanger for oil cooling of Bale Press with counter cooling arrangements.
- Lowest maintenance.
- Lowest packing material cost.
- Lowest manpower requirements.
- Heavy duty structure.
- Low pressure power pack for safety.
- Door less mechanism in double box presses.
- Lower depth underground Pit.
- Revolving boxes to save time.
- Application of heavy duty industrial hydraulic oil cooling system ensure long life of all hydraulic components & best performance for long life.

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ALWAYS USE

BAJAJ GENUINE SPARE PARTS FOR HIGHER QUALITY OUTPUT & BETTER LIFE OF MACHINE

Note : Features shown do not necessarily show the machine / equipments in it's standards form. In view of our policy of continuously improving our products, we reserve the right to alter specifications or designs without prior notice & without liability .



BAJAJ STEEL INDUSTRIES LIMITED

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**GET PROFIT WITH OPENING OF IMMATURE
COTTON BOLL & CLEANING IT**

- Movable
- Easy to Operate
- Robust Construction
- Maximises Profits



Trash Guard in
open position



Easy to clean & maintain
spiral screw Roll



Drive Mechanism



Drive Guard in
open position

“Quality is never an accident. It is the result of an intelligent effort.
There must be a will to produce a superior thing.

- JOHN RUSKIN”

**DESIGNED WITH THE USER IN MIND;
OVER 60 YEARS OF EXPERIENCE AT HAND!**

BAJAJ COTTON BOLL OPENERS

TECHNICAL SPECIFICATION	
Cleaning Capacity (Seed Cotton)	600 Kgs / hr (Avg)
Power (Max)	5 HP
Height : From top to hopper	5 1/4' (1600 mm)
From top to cover	4 1/4' (1295 mm)
Width	3 1/2' (1068 mm)
Length	12' (3658 mm)
Optional Accessories	i) C.I.Wheel arrangement, ii) Electric Motor iii) Transmission Pulley & Belt, iv) Starter v) Switch, vi) Heavy duty, four core flexible cable

AN ADDITIONAL PROFIT MACHINE :

- Designed to open seed cotton bolls by air turbulence and clean lower grades of cotton by separating dust, leaves immature bolls etc.
- Most efficient for cleaning Zoda, Leafy and other lower grades of seed cotton as well as collection from pre cleaners.
- Reduces manpower required for sorting, by allowing dust, leaves and immature bolls to fall below through grids with holes of different sizes for separate collection.
- Opened and Cleaned seed cotton delivered at the discharge end
- Recovers useful seed cotton from trash cotton collections.
- No damage to cotton fibre in the process.

ROBUST CONSTRUCTION :

- A large capacity fan is provided before inlet to create sufficient air pressure to aerate seed cotton by air turbulence.
- Large diameter Beaters are provided to separate dust, leaves and immature bolls etc. and push the clean seed cotton towards the discharge end.
- The grids are made of heavy gauge steel sheets.
- The round holes of different size grids do not get closed easily.
- The top cover of the machine is of painted CR sheets to make the machine weather resistant.
- The main shaft runs on three heavy duty ball bearing incase in dust proof housing to Give trouble free service for number of years, with lower power consumption.

SAFE AND TROUBLE FREE :

- Guarding at the feed end as well as at the discharge end has been provided for safety purpose.
- Totally enclosed by sheet metal with door to collect trash & pre matured Bolls separately.
- Suitable base for fitting electric motor has been provided to eliminate slide rails.
- The covers of the machine are tightened by fly nuts to enable the operator to attend the machine without using spanner.
- Driving arrangement is totally enclosed.

BAJAJ GINNING EQUIPMENTS & SYSTEMS

Double Roller Cotton Gin~Auto Feeder~Pre Cleaner~Lint Cleaner~Seed Cotton Opener & Cleaner~Pneumatic Conveying and Distribution System of Unginned Cotton for Automatic Plants~Belt Conveyors & Pneumatic Conveying System for Cotton Lint~Cottonseed Conveyors, Elevators~Electricals and Cotton Baling Presses.

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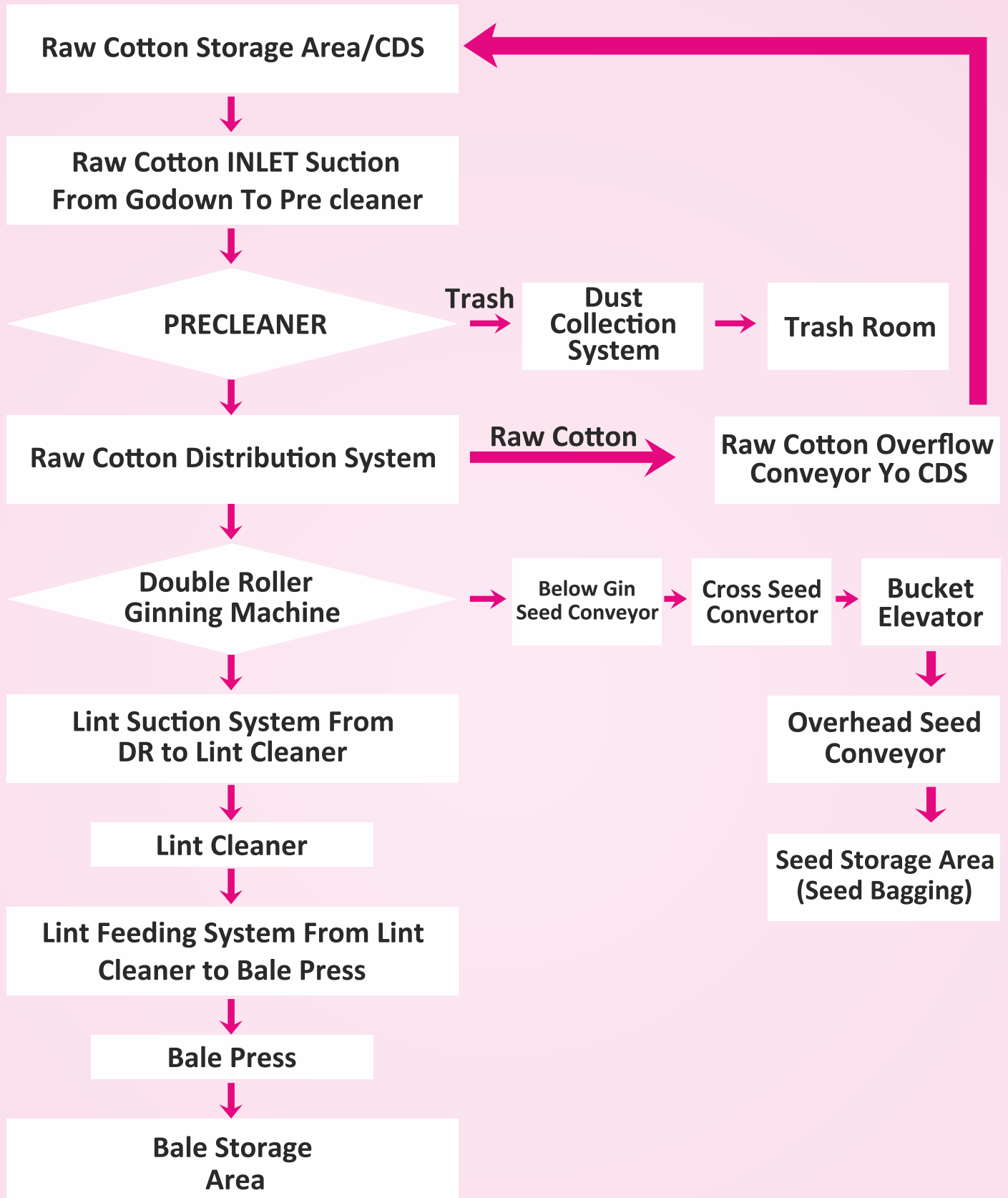
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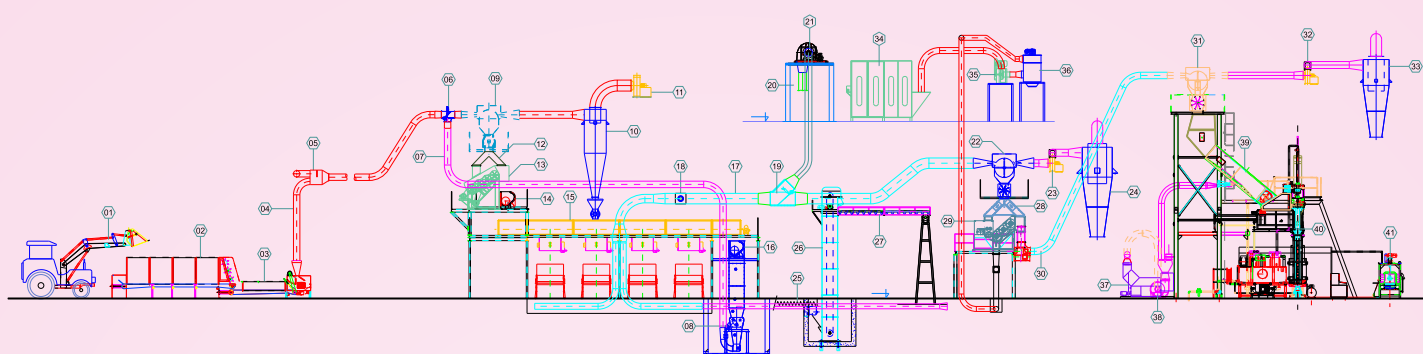
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Flow Process Chart For Bajaj Ginning



PROCESS FLOW DIAGRAM

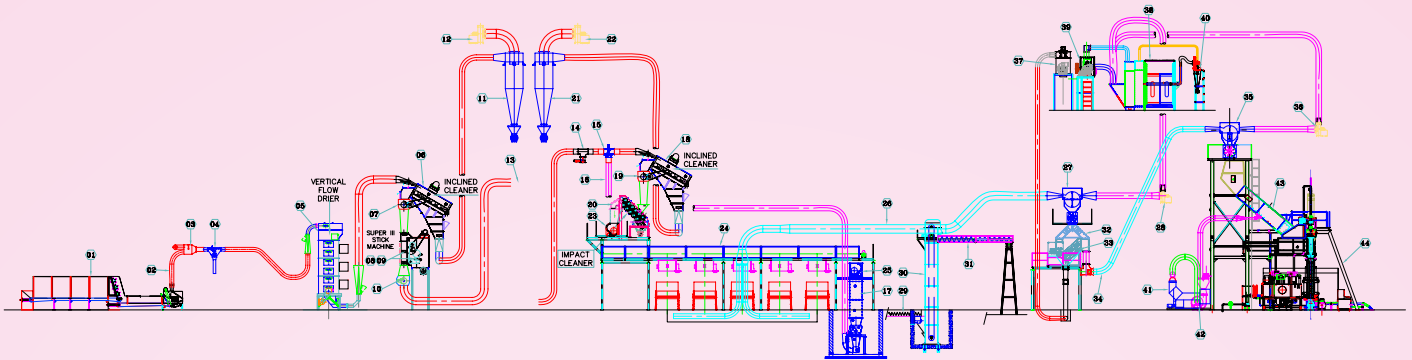
FOR HAND PICKED COTTON



COTTON SUCTION & PRE CLEANER	COTTON FEEDING GAP, FIBRE SEPARATION & SEED SEPARATION		LINT CLEANING & FEEDING SYSTEM TO BALE PRESS	HUMIDIFICATION AND BALE PRESS
01) TRACTOR/LOADER WITH ATTACHMENT 02) SEED COTTON DISPENSING SYSTEM 03) STONE REMOVING SYSTEM 04) MAIN SUCTION LINE 05) G. I. DIVERTOR 06) OVERFLOW SUCTION CUT-OFF VALVE 07) OVERFLOW SUCTION DUCTING 08) OVERFLOW HOPPER 09) RAW COTTON AIR SEPARATOR 10) CYCLONE WITH ROTARY AIRLOCK	11) CENTRIFUGAL SUCTION FAN 12) PRE CLEANER BY-PASS 13) PRE CLEANER 14) CROSS SCREW CONVEYOR 15) LONGITUDINAL SCREW CONVEYOR 16) OVERFLOW SCREW CONVEYOR 17) LINT COLLECTION DUCTING 18) FIRE DETECTOR 19) FIRE DIVERTOR 20) QUENCHING TANK	21) FAN FOR FIRE DIVERSION 22) LINT AIR SEPARATOR / CONDENSER 23) CENTRIFUGAL SUCTION FAN 24) CYCLONE 25) BELOW GIN/ CROSS SEED CONVEYOR 26) BUCKET ELEVATOR 27) OVERHEAD SEED CONVEYOR	28) LINT CLEANER BY-PASS 29) LINT CLEANER 30) LINT CLEANER SUCTION DUCTING 31) BALE PRESS AIR SEPARATOR / CONDENSER 32) CENTRIFUGAL FAN 33) CYCLONE 34) FIBRE COMPACTOR 35) VENTILATOR 36) PRIMARY & SECONDARY FILTERS	37) HUMIDIFIER 38) FAN FOR HUMIDIFIER 39) LINT SLIDE 40) BALE PRESS 41) BALE HANDLING TROLLEY

PROCESS FLOW DIAGRAM

FOR HAND PICKED COTTON



- 1) RC DISPENSING BOX & HEAVY TRASH SEP. BOX
- 2) MAIN SUCTION DUCKING
- 3) G.I. DIVERTOR
- 4) STONE CATCHER
- 5) VERTICAL FLOW DRIER 1ST STAGE DRYING
- 6) INCLINED CLEANER
- 7) VACUUM FEEDER
- 8) STRIPPER CLEANER
- 9) SUPER III STICK MACHINE
- 10) VACUUM FEEDER
- 11) CYCLONE WITH ROTARY AIRLOCK
- 12) CENTRIFUGAL SUCTION BLOWER
- 13) TOWER DRIER 2nd STAGE DRYING
- 14) MAIN SUCTION CUT-OFF VALVE
- 15) OVERFLOW SUCTION CUT-OFF VALVE

- 16) OVERFLOW SUCTION DUCTING
- 17) OVERFLOW HOPPER
- 18) INCLINED CLEANER
- 19) VACUUM FEEDER
- 20) IMPACT CLEANER
- 21) CYCLONE WITH ROTARY AIRLOCK
- 22) CENTRIFUGAL SUCTION BLOWER
- 23) CROSS SCREW CONVEYOR
- 24) LONGITUDINAL SCREW CONVEYOR
- 25) OVERFLOW SCREW CONVEYOR
- 26) LINT COLLECTION DUCTING
- 27) LINT AIR SEPARATOR
- 28) CENTRIFUGAL SUCTION BLOWER
- 29) BELOW GIN / CROSS SEED CONVEYOR
- 30) BUCKET ELEVATOR

- 31) OVERHEAD SEED CONVEYOR
- 32) LINT CLEANER BY-PASS
- 33) LINT CLEANER
- 34) LINT CLEANER SUCTION DUCTING
- 35) BALE PRESS AIR SEPARATOR
- 36) CENTRIFUGAL SUCTION BLOWER
- 37) FIBRE COMPACTOR
- 38) PRIMARY & SECONDARY FILTER
- 39) PRIMARY COMPACTOR
- 40) SECONDARY COMPACTOR
- 41) HUMIDIFIER
- 42) BLOWER FOR HUMIDIFIER
- 43) LINT SLIDE
- 44) BALE PRESS

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