

Innovation

and

Automation in



Textile

Processing

Recycling

Automobile



tinytop Engineering India Pvt Ltd

- ✦ Waste Collection and baling for Ring Spinning | Fibre dyeing Plants
- ✦ Bale weights of 100 Kgs
- ✦ Automatic Collection of Fibres from the Compactor / Condenser
- ✦ Automatic lifting of the Press Box on reaching the pre set Bale Weight



Automatic Online Baling System - Double Cylinder



- ✦ Waste Collection and baling for Ring Spinning
- ✦ Fibre dyeing Plants
- ✦ Bale weights of 150 Kgs, 175 Kgs, 200 Kgs
- ✦ Automatic Collection of Fibres from the Compactor / Condenser
- ✦ Automatic lifting of the Press Box on reaching the pre set Bale Weight
- ✦ Automatic Ejection of the Strapped Bale

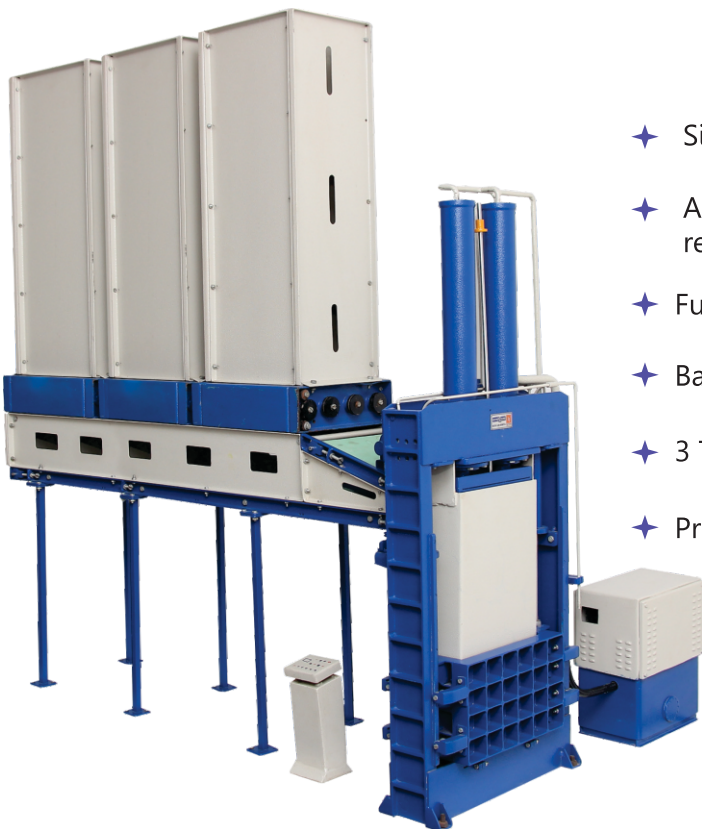
Automatic Baling 3 Silos Floor Level

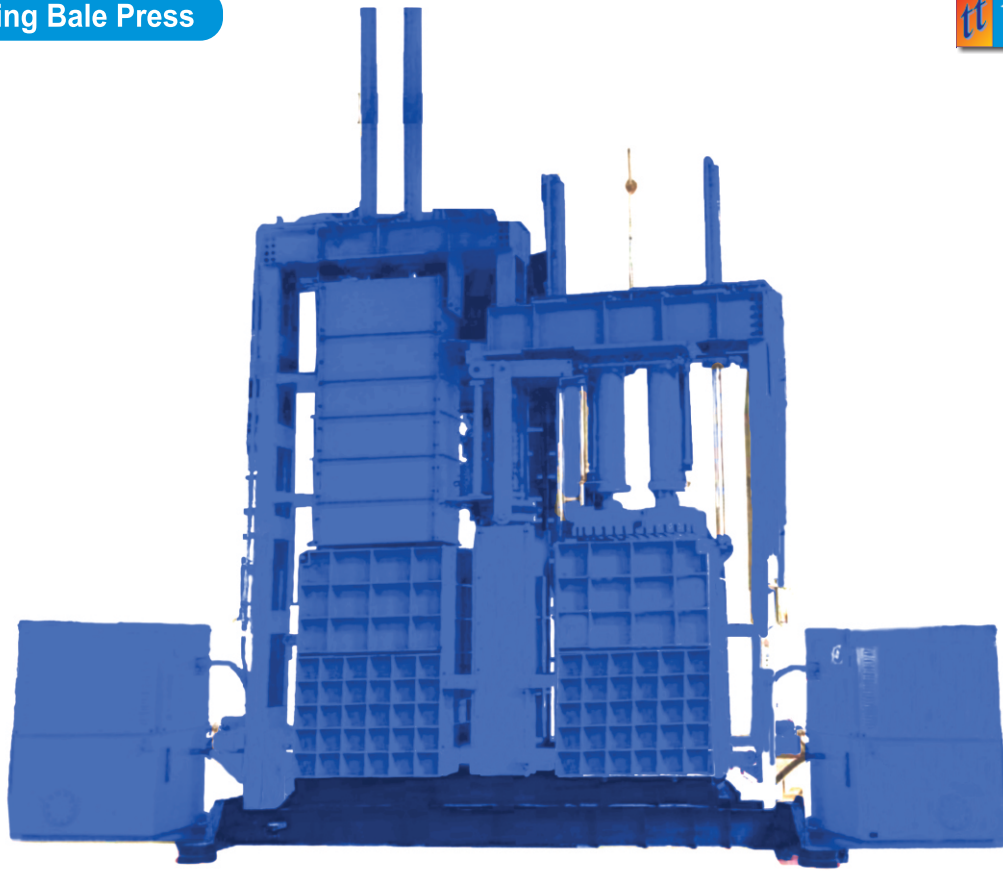
- ✦ Silos at Floor Level
- ✦ Automatic regulation of different types to fibres from respective Silo to the Bale Press through Conveyor
- ✦ Fully Automatic
- ✦ Bale Weight - 150 - 190 kgs
- ✦ 3 Types of Material can be baled in one Machine
- ✦ Production 7-10 T / Day



Automatic Baling 3 Silos above Conveyor

- ✦ Silos at above the Conveyor
- ✦ Automatic regulation of different types to fibres from respective Silo to the Bale Press through Conveyor
- ✦ Fully Automatic
- ✦ Bale Weight - 150 - 190 kgs
- ✦ 3 Types of Material can be baled in one Machine
- ✦ Production 7-10 T / Day





- ✦ Swiveling Press for Fibre Recovery Plants | dyeing Units
- ✦ Suitable for One Variety of Material
- ✦ Production : 10 -15 Bales / Hr Based on density of Material
- ✦ Bale Weight : 150 - 165 Kg



Manual Baling System

- ✦ Single & Double Cylinder
- ✦ Manual Feeding
- ✦ Hydraulic Operated
- ✦ Bale Weight 130 - 150 kg

Automatic Cone Packing Machine

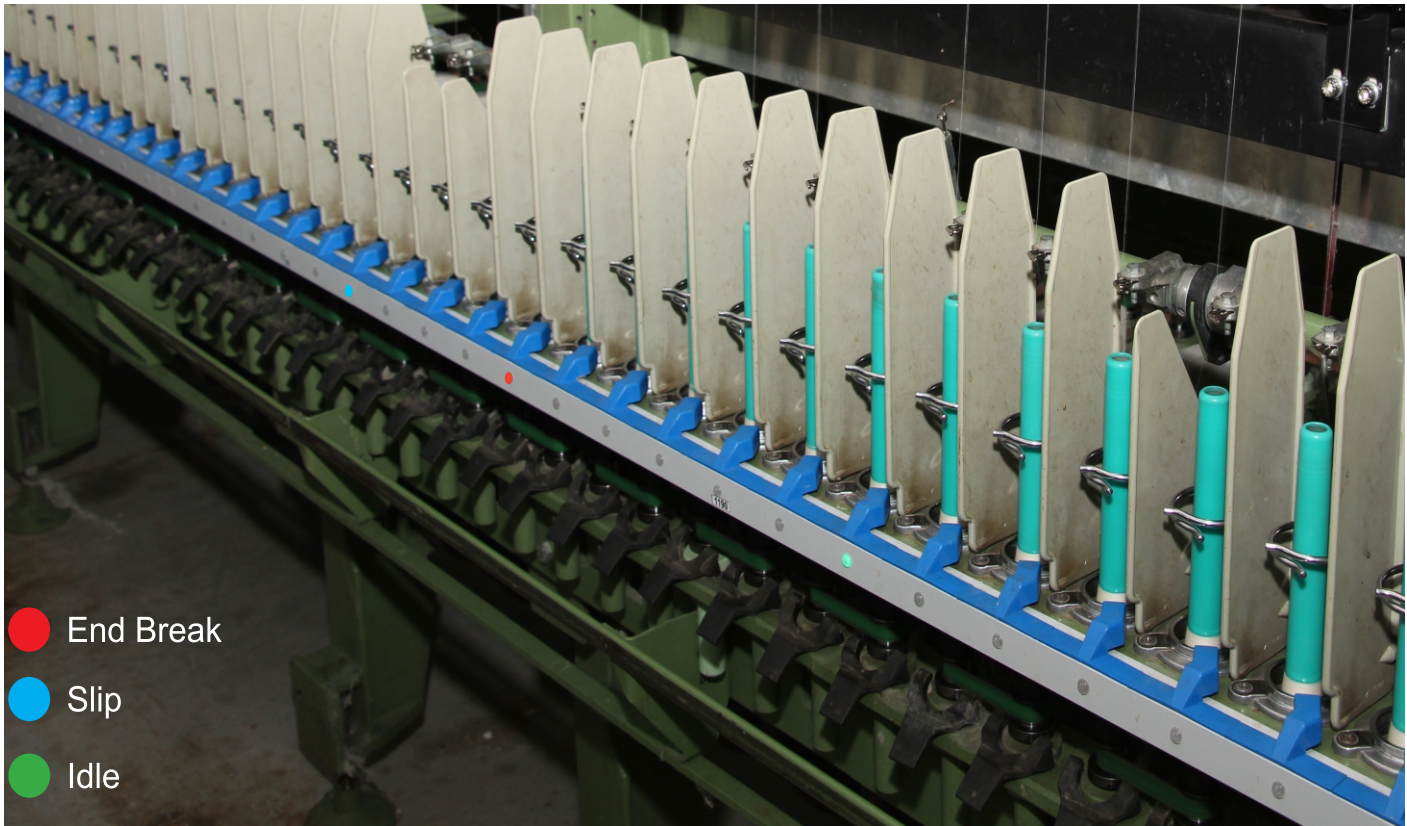


- ✦ Cone Size 210 x 180 x 170mm or as per Customer requirement
- ✦ No of Cones in the carton box 18 or 24 as per Customer requirement
- ✦ Packing Speed 10 – 12 Cones per min
- ✦ Electrical Power 4- 5 KW
- ✦ No. of Man Power 2 – 3 persons per shift

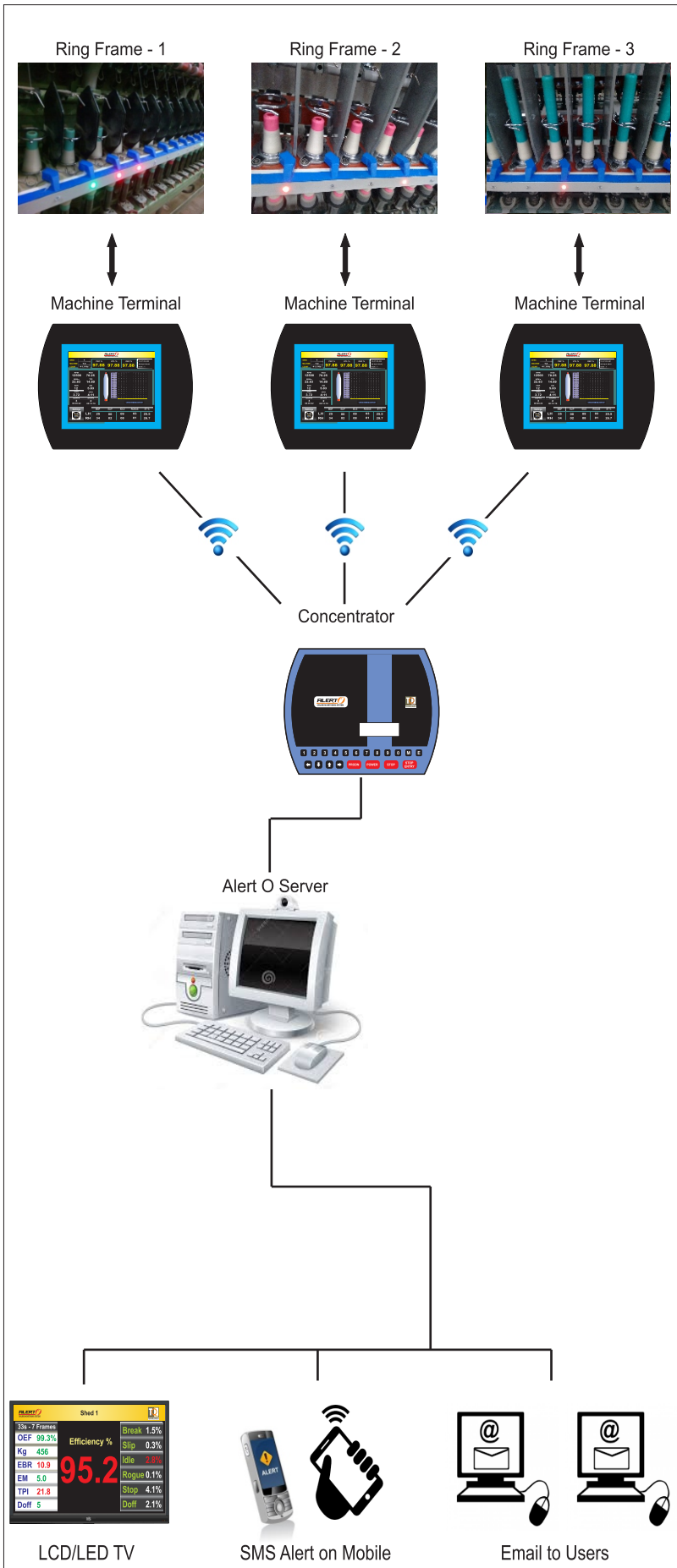
Semi Automatic Cone Packing Machine






- ✦ Productivity 600- 700 Cones / Hr
- ✦ Model For Carton box Packing / HDPE Bag Packing
- ✦ Advantage Reduced Man Power






Parameter	Before Alert O	After Alert O	Improvement	How is that achieved?
Pneumafil Waste	2.6	1.9	27%	Operators can quickly identify and travel to the broken Spindles, with super illuminated Red LEDs, thus reducing the mean Mending time and reduced waste. The patrolling time of the Operator is reduced by more than 45%
End Mending Time	3.9	3.3	15%	
Spindle Speed	18600	19400	4%	End break data, for the set Speed pattern is Identified and displayed for all the doffs in the Machine terminal and in the PC. The Speed settings can be adjusted based on the Breaks and thus achieving better Speed pattern, Reduced breaks and higher production
End Break per 100 spindle Hours(EBR)	5.9	4.8	19%	
Actual Efficiency	96.8	98.4	2%	
Unit per Kg	3.3	2.6	21%	UKG converted to 40s are identified and monitored Round the clock and the exceptions are highlighted. The root cause for higher energy consumption in some of the machines are identified and fixed
TPI	Rarely Identified	100% Detected	-	TPI deviations are monitored round the clock . All the Slip Spindles, exceeding the limits are Identified instantly and the Spindle production can be stopped immediately by the operator to Eliminate quality issues . The LED indication helps the Maintenance person to instantly identify the spindle and correct it.
Slip Spindles				
Rogue Spindle	Rarely Identified	100% Detected	-	Spindles which breaks frequently, more than the limits set are identified instantly, round the clock. The LED indication helps the Maintenance person to instantly identify the spindle and correct it. It reduces the patrolling time of the Maintenance person.



Tri Colour LED on each Spindle to **ALERT On...**

	Red LED Continuous Glowing	Break
	Blue LED Continuous Glowing	Slip
	Green LED Continuous Glowing	Idle

	Red LED Blinking	Rogue with Break
	Blue LED Blinking	Rogue with Slip
	Green LED Blinking	Rogue with Idle

User Friendly Machine Terminal to **ALERT On...**

- Draft Monitoring - To Highlight Draft Deviations
- Production, End break, Individual Spindle Performance and Stop Reports
- Doff Analysis Report, Breaks in each steps of a Doff for a Number of Doffs
- Power Reports

Centralised System with Comprehensive Reporting Software

- Machine wise, Count wise, Group wise and Operator wise - Production, End break, Power and Maintenance Reports
- Doff wise, Machine wise and Count wise - Power and Break Analysis
- SMS Alert System on Deviation
- Consolidated Report as email on specified interval

Group Display System for a Group of Machines or Shed to **ALERT On...**

- Exception and Poor performing side in the Shed/Group
- Count wise Snap shot report on Production, Stop, Power and End Breaks

Add On's

- Export ready to any ERP System
- Mobile App
- Roving Stop Motion



- ✦ This bike enhances the working capability of the ring frame sider
- ✦ Hub Motorparameters can be adjusted and fixed by connecting to the LAPTOP
- ✦ This bike eases the work of the ring frame sider
- ✦ Minimises the end mending time by making the sider reach the spindle faster
- ✦ Equipped with LEAD ACID Battery - 48 V
- ✦ Adjustable and Swivelling seat arrangement
- ✦ Charging Time : 2 - 3 hrs
- ✦ Total driving distance per charge - 30 - 45 km depending upon the field conditions



- ✦ Briquette size Dia 65 x 50 – 125 mm
- ✦ Total Production capacity 500 – 900 kg / day
- ✦ Total Power 15HP. - 20 HP.
- ✦ Installation space req 2500 x 1500 mm
- ✦ Manpower required 1 person



Briquette



Roving Bobbin Opener



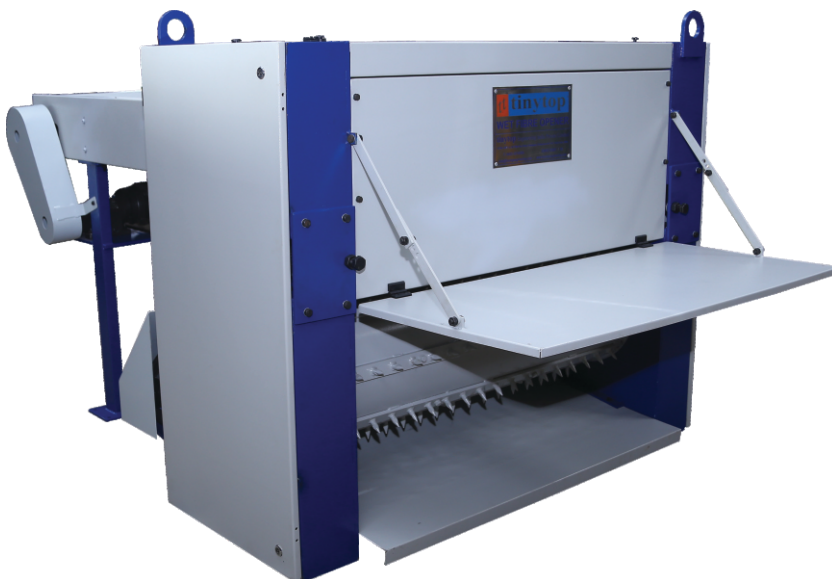
- ✦ Material for processing Roving Bobbin
- ✦ Power 0.5 Kw
- ✦ Air Consumption 8 CFM at 5 Bar
- ✦ Fibre collection / Hr 2 to 2.5 kg Approx
- ✦ No of Bobbin / hr 400 nos / hr
- ✦ Power in kwh for compressed Air 2 units / hr

Baling Press for Cake Forming

- ✦ Kg / hr : 200 /300
- ✦ Kg/day : 4400 / 6600 22 hrs
- ✦ Cake weight : 150 / 300 kg
- ✦ Cake OD : 1200 mm on wards
- ✦ Cake ID : 440/600 mm
- ✦ Cake height : 625 mm
- ✦ Pressing Capacity : 50 tons
- ✦ Power for Press : 15 HP



Wet Fibre Opener



- ✦ Operating Width 1200 - 3000 mm
- ✦ Motor Power 5 HP
- ✦ Productivity 250 - 450 kg / hr
- ✦ Feed Conveyor for Material Feeding and Conveyor for Delivery is Optional

- ✦ Baling Press for Paper
- ✦ Baling Press for Fabric
- ✦ Baling Press for Milange
- ✦ Baling Press for Coir Pith
- ✦ Baling Press for Coir Fibre
- ✦ Baling Press for Pet Bottle
- ✦ Baling Press for Hank Yarn
- ✦ Bundling Press for Hank Yarn
- ✦ Baling Press for Acrylic Yarn (Auto Packer)
- ✦ Horizontal Bale Press for Paper with 1000kg Bale weight
- ✦ Cotton Contamination Sorter
- ✦ Cops Loader
- ✦ Cops Sorter - 2 Color with & without Box
- ✦ Cops Sorter - 3 Color & 4 Color (Oppt. Manual Loading Type)



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