



B.S. ENGINEERING MACHINERY PVT. LTD.



PLYWOOD & VENEER MACHINERIES

COMPANY PROFILE

B S Engineering Corporation. (BS) is one of the Largest and reliable Machine Manufacturer in INDIA, with a strong presence in the market since 1953. It is a Manufacturer as well as Exporter of Plywood Machineries, Bamboo Board Machineries, Coir Mattress Machineries & Chemical Plant Equipments. The Company takes up Turnkey projects for the above-mentioned industries.

The range of Products are:

- 1) **PLYWOOD MACHINERY:** Auto Face Veneer Line, Dryers, Hydraulic Hot Press, Seasoning Kilns, Hydraulic Scissor Lifts, Guillotine Joints, Belt sander, D.D.Saw machine, Veneer Clipper, Knife Grinder.
- 2) **COIR MATTRESS MACHINERIES:** De-twisting machine, Sheet machine, Spray booth cabin, Dryer, Hydraulic Hot Press, Vulcanizer, Ball mills, latex tank, Vertical cutting machine.
- 3) **BAMBOO BOARD MACHINE:** Bamboo splitting machine, Sliver machine, Knot removing m/c, Glue applicator, hot Press, Band Dryer, D.D.saw.

Salient Features:

- The company provides assistance for helping you decide upon the right capacity of the plant.
- The company has in-house technical team who would provide you with all the required technical assistance on-site during erection & commissioning.
- All civil drawings for the machinery would be provided by the company.
- In addition the company will supply with all the necessary genuine quality spares for the Plant.

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Roller Veneer Dryer

The Jet Ventilated Roller Track Veneer Dryers are available in different models as per the production requirement with different Sections & Decks. The machine has compact-Drying Chambers - called as Sections along with Multiple Double Roller Veneer Feeding Decks and cooling section(s). Each section is fitted with Aluminum Axial Flow Fan directly coupled with motor. Heating Coils with extra-wide fins, Double Jet Nozzles Jet Box for top & bottom of each deck is supplied throughout the length of the dryer. Separate Control Panel fitted with A.C. Variable Frequency Drive is provided with Dryer. The entire outside covering of the dryer is perfectly insulated with heat resisting insulated layer (Box) of 100mm thick all around of the Dryer except floor.

Dryers of 10' Mini with standard configurations are available on demand.

Product features of Roller Veneer Dryer:

- Aerodynamic Guide Duct to ensure maximum delivery of air to the radiator and so minimum loss of heat
- Coil Fins of higher width ensuring better dissipation of heat to the heating air
- More number of fins per inch of tube ensuring more efficient capturing of heat from thermic fluid/Steam
- Higher thickness of roller walls ensures more weight and thus flatter Dried Veneer
- Higher thickness of jet boxes ensuring no longitudinal and transverse twisting due to thermal stress
- All body sheets sourced from Nationally reputed manufacturers
- Use of genuine channel sections and not plate bended formed sections for roller stands ensuring better life of dryer
- All components of Control Panel sourced from Nationally reputed manufacturers with Nationwide Service Network



Roller Veneer Dryer (Jet Ventilated)



TECHNICAL DATA - 15' STANDARD

JET DRYERS	Roller Size (mm)		Production in Sq. ft. per 24 Hrs. on 2 mm thick dried veneer basis			Requirement of :	
	Length	Dia	Steam	Thermic Fluid	Power	Steam kg/hr.	Thermic Fluid Kcal/hr.
6 Section 4 Deck	4600	112	250000	280000	41.5 HP	1100	600000
8 Section 4 Deck	4600	112	340000	380000	78.0 HP	1500	800000
10 Section 4 Deck	4600	112	430000	500000	95.5 HP	1800	1000000
12 Section 4 Deck	4600	112	550000	600000	114.0 HP	2200	1200000

TECHNICAL DATA - 12' MIDI

JET DRYERS	Roller Size (mm)		Production in Sq. ft. per 24 Hrs. on 2 mm thick dried veneer basis			Requirement of :	
	Length	Dia	Steam	Thermic Fluid	Power	Steam kg/hr.	Thermic Fluid Kcal/hr.
4 Section 3 Deck	3670	89	75000	85000	17.0 HP	500	250000
6 Section 3 Deck	3670	89	115000	130000	25.5 HP	650	350000
8 Section 3 Deck	3670	89	200000	225000	36.0 HP	950	525000
6 Section 4 Deck	3670	89	180000	200000	40.5 HP	1000	550000

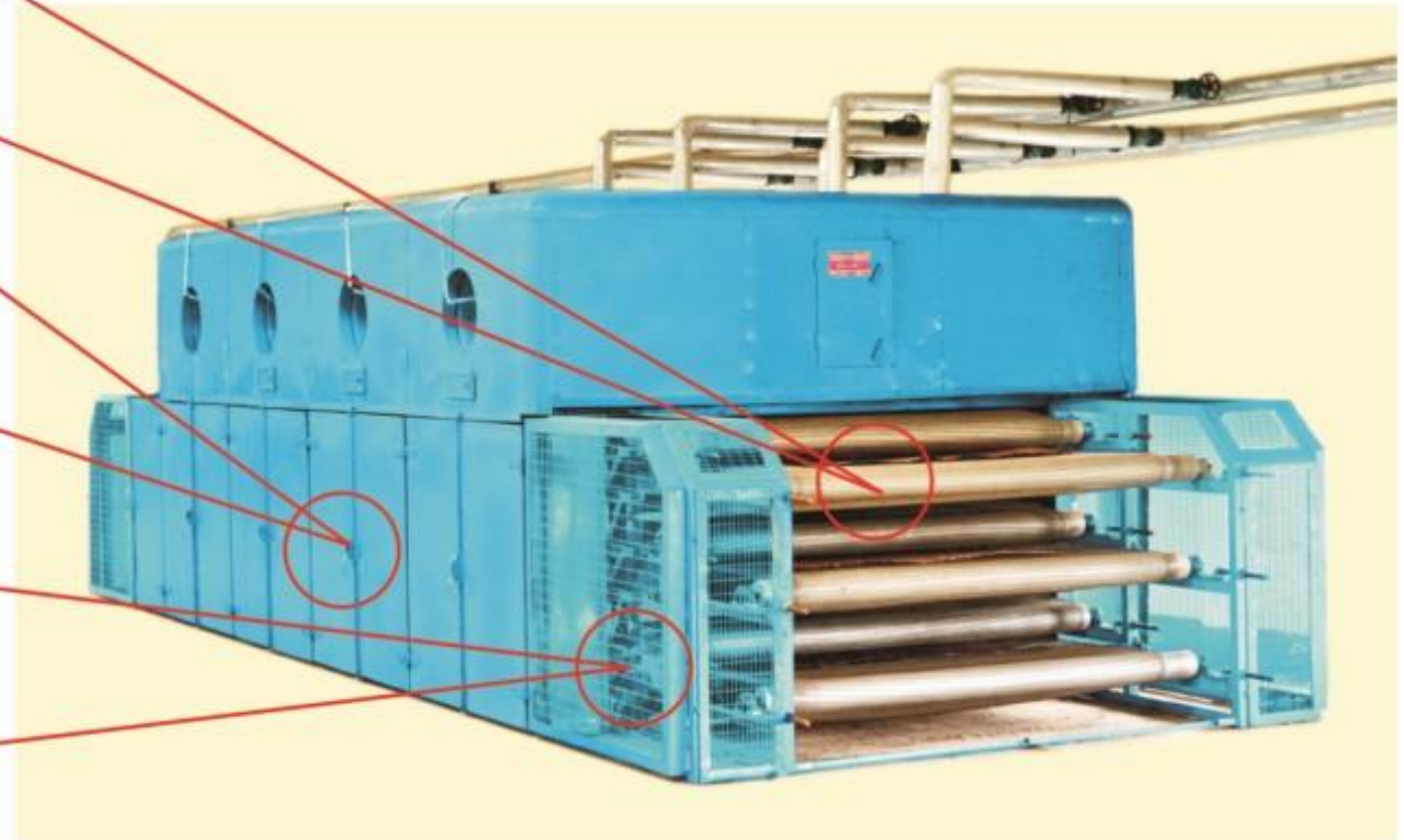
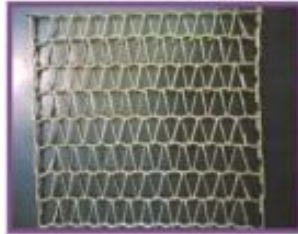
TECHNICAL DATA - 15' STANDARD

JET DRYERS	Roller Size (mm)		Production in Sq. ft. per 24 Hrs. on 2 mm thick dried veneer basis			Requirement of :	
	Length	Dia	Steam	Thermic Fluid	Power	Steam kg/hr.	Thermic Fluid Kcal/hr.
4 Section 3 Deck	4600	112	115000	130000	20.5 HP	650	350000
5 Section 3 Deck	4600	112	140000	165000	25.0 HP	750	400000
6 Section 3 Deck	4600	112	195000	220000	31.0 HP	950	500000
8 Section 3 Deck	4600	112	285000	320000	43.5 HP	1200	650000

TECHNICAL DATA - 15' ECO

JET DRYERS	Roller Size (mm)		Production in Sq. ft. per 24 Hrs. on 2 mm thick dried veneer basis			Requirement of :	
	Length	Dia	Steam	Thermic Fluid	Power	Steam kg/hr.	Thermic Fluid Kcal/hr.
4 Section 3 Deck	4600	89	90000	100000	18.5 HP	550	300000
6 Section 3 Deck	4600	89	160000	180000	29.0 HP	750	400000
8 Section 3 Deck	4600	89	250000	280000	36.0 HP	950	525000
6 Section 4 Deck	4600	89	225000	250000	40.5 HP	1000	550000

Band Dryer (WITH STEEL BAND CONVEYER)



Band Dryer with SS-304 Band and Auto Alignment of Band

Continuous Conveyor Dryer or Band Dryer is ideal for drying Thin Face Veneer, Sliced / Peeled Decorative Veneers, PF Resin Impregnated Core Veneers, Bamboo Mat / Curtain etc. The machine has Stainless Steel Bands or Conveyers for rust-free operation. Each deck has a set of pressing Band to keep the dried material in portion and prevent wear and tear. Double set of Jet Boxes provide uniform drying all along the length of the Dryer. The Dryer has extended Feeding Section to enable proper arrangement of the materials during feeding. The Dryer is supplied with specially designed Alloy Fan and Dyno Drive for variable feed speeds and Band Tensioning with Auto Alignment System.

Standard Models available are 4 section 3 deck, 5 section 3 deck, 7 section 3 deck Band Dryer.



MULTI-DAYLIGHT HOT PRESS

These multilayer Hot presses are ideal for making Plywood, Bamboo Board, Particle Board and other composite boards. The structure is fabricated of Steel plates as per the pressure capacity. High pressure is achieved with Window-Frame type structure . Hot platens are made of solid MS plates with drilled holes for Steam / Thermic Oil Flow. This gives uniform temperature across the plates.

- Standard Model of Hot press for Plywood : 650, 720, 1000Tons
- Bamboo / Composite Board Hot Press: 1200, 1600, 2500, 3200 Tons
- Size of Platens : 1980 x 1350mm; 2590 x 1350mm; 2650 x 1370mm
- Daylight / Layers : 7, 10, 12, 15, 20



POWER PACK & PANEL

Bamboo Corrugated Hot Press

This Hot press is specially designed for making Bamboo Corrugated Sheets. The structure is of Window-Frame design. The hot press have dual breather cycle for perfect formation of the Corrugated sheets and ridge caps.

Bamboo / Composite Board Hot Press:

1200,1600,2500,3200 Tons

Size of Platens: 1980 x 1350mm; 2650x 1370

Platen / Die thickness: 90mm +/-

No of Daylight / Layers: 3,5,6

Salient Feature :

- ▶ Very sturdy built-up structure.
- ▶ CNC machine Hot Platens for perfect formation of product.
- ▶ Solid Forged Piston.
- ▶ Highly efficient Hydraulic Powerpack design.

Product features of Hot Press:

- Body structure type is window frame as per the operating pressure requirement
- Pistons of Solid Forged configuration
- Channel designed to ensure uniform flow of thermic fluid/steam in all directions in each plate
- All plates used are sourced from Nationally reputed manufacturers
- All components of Control Panel sourced from Nationally reputed manufacturers with Nationwide Service Network
- Capability of manufacturing hot presses for diverse applications like

- ◆ Plywood press
- ◆ Bamboo Board Press
- ◆ Pre Press
- ◆ Special Application Presses



CORRUGATED HOT PRESS

Resin Kettle



Resin Kettle made of Stainless Steel Inner shell and MS Outer Jacket. Suitable for preparation of Urea, Phenolic and Melamine Resins. The Resin Kettle is of Double Jacket type design with Torishperical base and top. The supply also includes Shell & Tube type Condenser with Stainless steel Tubes. The Kettle is complete with Pipeline, Valves, Motors, Safety Devices, Thermometer and Level gauge.

Scissor Lift



1. Closed Height : 300 mm,
2. Open Height : 1500 mm,
3. Table Size : 2400 x 1200 mm,
4. Foot Switch operated solenoid valve controlled system,
5. Both side platform for operator,
6. Motor Required : 1 No. 2 H.P. 1440 R.P.M.

Chain-Feed Double Dimension Saw



Double Dimension Saw Machine for Plywood, Block Board & Flush Door sizing operates with chain feed auto conveyor on both sides. Boards are kept in position by self-mechanical pressure. One side of the machine will be fixed and other side will be adjustable for change of size from 2ft to 8ft. The machine is fitted with dust collection chute & middle support. Motors: 2 nos. 5 HP 2900 RPM - for Circular saw, 2 nos. 1HP 2900 RPM - for pre-cutter / Scouring & 3 HP 1 No. 1440 RPM for conveyor.

Pneumatic Clipper



Pneumatic Veneer Clipper Machine 2745mm(9ft) long cutting capacity. Manual control Front Feeding is by double rubberized wheels. Discharge side has Belt Conveyor Table for sooth veneer movement and perfect size cutting. Knife Bar made of Seasoned Cast Iron and connected to pneumatic cylinders. (Air compressor not Included) Motor: 1 No. 3HP 1440 RPM - for Conveyor

Fully Automatic Double Dimension Cutting Saw



Applications

This machine is mainly used for Trimming of Four Rough Edges of Plywood, block board, practical board and MDF board etc.

Advantages

1. Cutting saw speed above 6000 RPM
2. Trolley movement on Liner-Guide rails
3. Synchronized Longitudinal & Traverse board movement
4. Fast, Easy and Labour Saving operations
5. Auto-Board Stacker with Hydraulic Scissor Lift.

* Dust Collector and Air Compressor not included

Main parameters

Model	BSE DDS 2500 - 900
Max. cutting width	1220 mm
Max. cutting length	2440 mm
Min. cutting width	910 mm
Min. cutting length	1760 mm
Cutting thickness	10 - 50 mm
Size of saw	300 mm x 2.2 mm x 25.4(B)
Rotary speed of saw	6000 r/min and above
Feeding speed	5 - 25 m/min
*Dust extraction requirement	> 3200 m ³ /h
*Min sucked air velocity	> 20 m/s
*Working air pressure	0.55 Mpa
Total power	40 HP
Overall dimension	8500 x 8500 x 2800 mm
Machine weight	4800 kg

WIDE BELT SANDER



Model : BSE 1300 RP-P Brush



Model : BSE 1300 RP-M Brush



Model : BSE 1300 C-RP Brush



Model : BSE 1300 RP Brush

Main parameters

Model	BSE 1300 RP-M Brush	BSE 1300 C-RP Brush	BSE 1300 RP Brush
Processing width	1300mm	1300mm	1300mm
Processing thickness	2.5-110mm	2.5-110mm	2.5-110mm
Sand belt speed	20m/s	20m/s	20m/s
Size of sanding belt	1330 x 2200mm	1330 x 2200mm	1330 x 2200mm
Speed of abrasive belt	6-30m/min	6-30m/min	6-30m/min
Rubber Roller Hardness	55 #	55 #	21.44kw
Main motor power			
Sanding & Polishing Head	18.5kw & 11.0kw	18.5kw	18.5kw
Calibration Head		15.0kw	
Working platform lifter motor	0.37kw	0.37kw	0.37kw
Brush roller motor	0.37kw	0.37kw	0.37kw
Conveyor motor	4.0kw	4.0 kw	2.2 kw
Total motor power	34.24kw	38.24kw	21.44kw
* Working air pressure	0.55MPa	0.55MPa	0.55MPa
* Consumption of compressed air	0.1m ³ /min	0.1m ³ /min	0.1m ³ /min
* Average speed of sucked air	25-30m/s	25-30m/s	25-30m/s
Machine size	2208 x 1716 x 2000mm	2208 x 1716 x 2000mm	2208 x 1716 x 2000mm
Weight	2800kg	2200kg	2200kg

BSE 1300 RP-P B Brush & BSE 1300 RP-M Brush

- ▶ Suitable for Thin Veneered Plywood / Board.
- ▶ Calibration Mechanism.
- ▶ Air Pad System to Safe Guard Veneer damage.
- ▶ Low Power Consumption.
- ▶ Steel Wool Type Polishing System incorporated.

Cleaning Brush

with drive motor and separate dust extraction hood for workpiece cleaning.

* Dust Collector and Air Compressor not included





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