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Our World Class Plywood Machinery Solutions & Glue Optimization Products

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Shakti Engineering Works
ENDLESS SOLUTIONS FOR PLYWOOD MACHINERY

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Endless Solutions for
**PLYWOOD
MACHINERIES**



Shakti Engineering Works

ENDLESS SOLUTIONS FOR PLYWOOD MACHINERY

WHO WE ARE

Shakti Engineering Works (SEW); located at Yamuna Nagar, Haryana (India), is one of the leading providers of all types of Plywood Machinery. The company is known for its huge range of variety and high quality plywood production machinery. SEW was founded by 1st generation entrepreneur Mr. Ram Prakash Dhiman in 1981; starting with a small "Band Saw" machine. Since 2017, Mr Jitendra Dhiman took over SEW and expanded the range of plywood machinery viz. glue spreaders, mixers, plywood production automation, scissor lifts, loader-unloaders, etc. Today, SEW has installations across India and gained the trust of all its clients due to quality and prompt after sales service support. We are proud of being OEM in plywood production machinery and we source all components and raw material from India only. SEW is known for GLUE USAGE OPTIMISATION which is the 2nd most costly raw material in plywood production. We understand our client's expectations towards wastage and cost saving. We have complete end-to-end plywood machineries for Matt Ply, Shuttering Ply, Block Board, Door, etc.

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World Class Quality RIPSAW



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Our Best Seller

Ripsaw Machine

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Sliding Bed, Housing made of high quality graded cast iron for durability.
- Equipped with Four Feeding Rollers(80 mm diameter).
- Equipped with 4", Heavy Duty reduction Gear, Single Speed Gear.
- Original Branded Bearings for smooth and excellent performance.
- Provision of 7 cutters.
- Plank of 6-7 inches width and 1" thickness can be ripped at a time.
- Motors required: 5 HP/1440 rpm & 30 HP/1440 rpm

Purpose : For ripping 1" planks to make board/door filler bits.



Frame Finger Jointer

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Sliding Bed made of high quality graded cast iron for durability.
- Equipped with one face cutter and 12 finger making cutters.
- Including motors 2 HP and 3 HP.
- Original Branded Bearings for smooth and excellent performance.
- Including Joining press, equipped with dual pressure screw.
- Motors required: 2 HP/2800 rpm & 3 HP/2800 rpm

Purpose : For making fingers in frame and join them for zero wastage.



Small Ripsaw Machine

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Sliding Bed, Housing made of high quality graded cast iron for durability.
- Equipped with Three Feeding Rollers(80 mm diameter).
- Original Branded Bearings for smooth and excellent performance.
- Provision of 4 cutters.
- Motors required: 10 HP/1440 rpm & 3 HP/1440 rpm

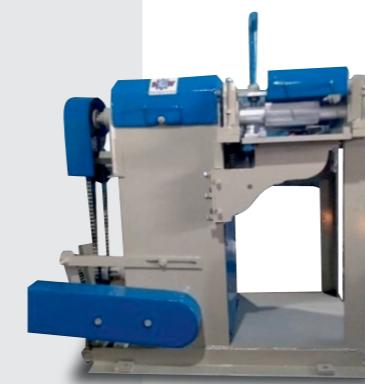
Purpose : For ripping 5/8"planks and D.D. Saw side cutting waste to make board/door(side cutting) filler bits.



Frame Ripsaw Machine

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Sliding Bed, Housing made of high quality graded cast iron for durability.
- Equipped with Four Feeding Rollers(80 mm diameter).
- Equipped with 4", Heavy Duty reduction Gear, Single Speed Gear.
- Original Branded Bearings for smooth and excellent performance.
- Provision of 7 cutters.
- Plank of 6-7 inches width and 3" thickness can be ripped at a time.
- Motors required: 5 HP/1440 rpm & 40 HP/1440 rpm

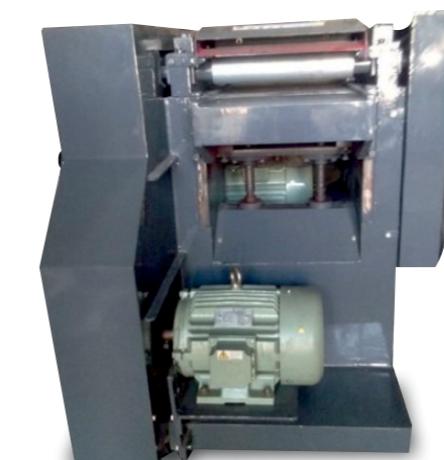
Purpose : For ripping Door Frame from pine and popular planks. (additional) For ripping 1" planks to make board/door filler bits.



Saw Dust Mixer (Burada Mixer)

- Heavy duty M.S. fabricated structure of 3 mm thickness for durability and strength of the machine.
- Capacity 250 Ltr.
- 40 mm Square for rotating shaft.
- Double Belt Pulley 24"
- Heavy duty bearings.
- Motors required: 5 HP/1440 rpm .

Purpose : Fine Mixing saw dust and glue, avoid making glue balls.



Double side Thickness Planner

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Sliding Bed, Housing made of high quality graded cast iron for durability.
- Equipped with Four Feeding Rollers.
- Original Branded Bearings for smooth and excellent performance.
- Width of Table 12".
- Smooth bed for accurate size of frame.
- Motors required: 5 HP/1440 rpm & 3 HP/ 1440 rpm

Purpose : For accurate thickness of Frame.



4 sides Ripsaw Machine

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Equipped with four motors 5HP, 2 HP, 2 HP, 1 HP.
- To Equipped with three motors 7.5HP, 2 HP, 1 HP.
- Equipped with Four Feeding Rollers(80 mm diameter).
- Equipped with Single Speed Gear.
- Original Branded Bearings for smooth and excellent performance.
- Including 2 Diamond Bit cutters, 2 Rooters, 8 Blades.
- Capacity of 40-50 qtl. Rulla per day.

Purpose : For ripping Door and board BIT from Peeling RULLA(wastage).





Glue Mixer

- ✓ Heavy duty M.S. fabricated structure of 3 mm thickness for durability and strength of the machine.
- ✓ Capacity 500 Ltr.
- ✓ 40 mm Square for rotating shaft.
- ✓ Double Belt Pulley 24".
- ✓ Heavy duty bearings.
- ✓ Motors required: 3 HP/1440 rpm .

Purpose : Fine Mixing glue and chemicals.

Glue Spreader (36")

- ✓ Heavy duty M.S. fabricated structure for durability and strength of the machine.
- ✓ 13" High quality, heavy rubber rollers (threading life 3-4 months).
- ✓ 5" heavy duty Chrome coated master rollers.
- ✓ Original Branded Bearings for smooth and excellent performance.
- ✓ Duplex chain and gears.
- ✓ Double Belt Pulleys.
- ✓ Motors required: 3 HP/1440 rpm

Purpose : For Pasting glue on veneer core.



Glue kettle

- ✓ MS outer shell.Stainless Steel jacket inside.
- ✓ Stainless steel shaft and fins.
- ✓ Stainless steel coil for cooling.
- ✓ Heavy duty motor & gearbox.



High Speed Mixer (Hydraulic)

- ✓ High Speed mixing.
- ✓ No Clots formation.
- ✓ Stainless steel shaft and Disc.
- ✓ VFD to adjust Mixing speed.
- ✓ Hydraulic Cylinder for up down movement of Disc.
- Electric Panel & Powerpack included.



Single side Glue Spreader

- ✓ Upper roller with rubber coating.
- ✓ Lower roller with hard chrome coating.
- ✓ Duplex chain and gear.
- ✓ Glue tank on top.
- ✓ 8 inch hard chromeaster roller



Glue Spreader for Calibrated Ply

- ✓ Heavy duty structure.
- ✓ 8" hard chrome master rollers
- ✓ 13" rubber rollers with our special formula of rubber
- ✓ 4" Gearbox.
- ✓ Glue tank on top.

Purpose : For Applying glue on double /single side of ply used for mat ply and calibrated ply production



Glue Spreader (54")

- ✓ Heavy duty M.S. fabricated structure for durability and strength of the machine.
- ✓ 13" High quality, heavy rubber rollers (threading life 3-4 months).
- ✓ 5" Heavy duty Chrome coated master rollers.
- ✓ Original Branded Bearings for smooth and excellent performance.
- ✓ Duplex chain and gears.
- ✓ Double Belt Pulleys.
- ✓ Motors required: 3 HP/1440 rpm

Purpose : For pasting glue on veneer core.



Glue Mixer (Cap. 2000 ltr.)

- ✓ Heavy duty ms fabricated structure.
- ✓ Capacity 2000 ltr.
- ✓ Shell thickness 6mm.
- ✓ 8 mm dish on bottom.
- ✓ 3hp motor & gearbox.

Purpose : Fine mixing of glue.



8 foot GLUE SPREADER (PNEUMATIC)



- ✓ Dynamic balanced Rollers.
- ✓ Fully pneumatic control for all rollers with Manual controls for fine adjustments.
- ✓ Electric panel with VFD to control feeding speed.
- ✓ Height adjustable glue tray.
- ✓ Heavy duty gearbox for smooth drive.



Low Coverage Glue Spreader

For Densified & Shuttering Ply

Specially designed structure and rubber for low coverage of glue.
Available in both sizes 36" & 54".

High Speed Glue Mixer (Pneumatic)

- ✓ High Speed mixing.
- ✓ No Clots Foarmation.
- ✓ Stainless steel shaft and disc.
- ✓ Pneumatic cylinder for up down movement of disc.
- ✓ VFD to adjust Mixing speed.



AUTO LOADER FOR MAT PLY



✓ Successfully working for 15 Daylights.

✓ Fully Automatic.



Elevator

- ✓ 100 mm piston for side cylinders.
- ✓ 1" double chain both side
- ✓ 12 mm ms rope for safety.
- ✓ Heavy duty structure
- ✓ Purpose : Heavy duty lift system for densified production press



Scissor Lift with Foundation



- ✓ 100 mm piston for side cylinders.
- ✓ 1" double chain both side
- ✓ 12 mm ms rope for safety.
- ✓ Heavy duty structure
- ✓ Purpose : Heavy duty lift system for densified production press

Scissor Lift without Foundation



- ✓ Scissor lift (without foundation)
- ✓ Heavy duty hydraulic cylinder
- ✓ Power pack and motor including
- ✓ Purpose : Used for feeding calibrator, glue spreader, drum sanding, dd saw etc.

Maintenance Lift

For 25 Daylight.

Dual Cylinder with 4500 mm Stroke.

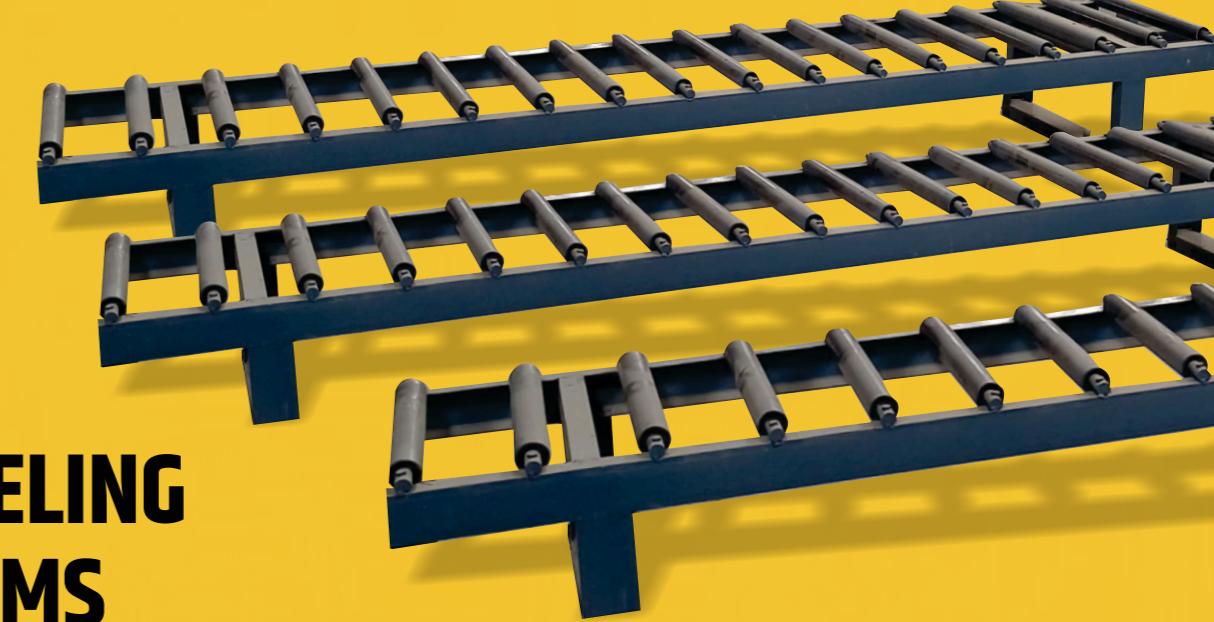
Side pads for safe movement of Operator.

Capacity 5 ton.



HANDELING SYSTEMS

- ✓ Rollers solution for material movement.
- ✓ Options to turn over also available.



3 ton Scissor Lift

- ✓ Heavy duty structure.
- ✓ Solid bar for scissor arms.
- ✓ Plunger pump in power pack.



Plywood Dipping Machine (Automatic)

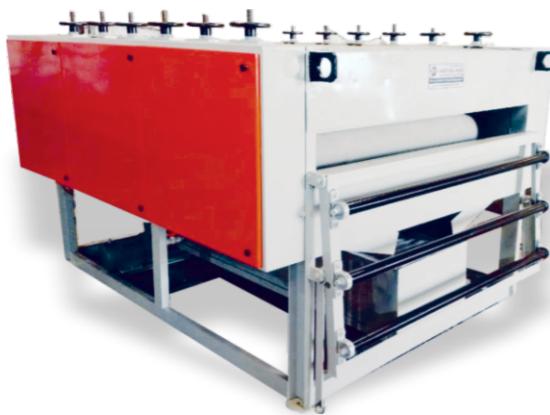


- ✓ Heavy duty M.S. fabricated structure for durability and strength of the machine.
- ✓ Equipped with 12 Heavy duty Feeding Rubber Rollers(210 mm diameter).
- ✓ Stainless Steel tank of 300 Ltr capacity.
- ✓ Original Branded Bearings for smooth and excellent performance.
- ✓ 3/4" chain and gears for smooth performance.
- ✓ Motor and gearbox for hassle free size adjustment.
- ✓ Panel Included.
- ✓ Motors required: 5 HP/1440 rpm , 1 HP/1440 rpm & 2 HP/1440 rpm

Purpose : For uniform chemical coating of Ply/Board/Door.



Plywood Dipping Machine (Manual)



- ✓ Heavy duty M.S. fabricated structure for durability and strength of the machine.
- ✓ Equipped with 12 Heavy duty Feeding Rubber Rollers(210 mm diameter).
- ✓ Stainless Steel tank of 300 Ltr capacity.
- ✓ Original Branded Bearings for smooth and excellent performance.
- ✓ 16 mm plate used for Heavy Duty Structure.
- ✓ 3/4" chain and gears for smooth performance.
- ✓ Manual wheels for size adjustment.
- ✓ Panel Included.
- ✓ Motors required: 5 HP/1440 rpm & 1 HP/1440 rpm

Purpose : For uniform chemical coating of Ply/Board/Door.

Steel Wool Machine (Double Side)

- ✓ Heavy duty M.S. fabricated structure for durability and strength of the machine.
- ✓ Equipped with 6 Feeding Rollers.
- ✓ Equipped with four Brush Rollers
- ✓ Original Branded Bearings for smooth and excellent performance.
- ✓ 16 mm plate used for Heavy Duty Structure.
- ✓ 3/4" chain and gears for smooth performance.
- ✓ Panel Included.
- ✓ Dust Collector Included.
- ✓ MOTOR required : 7.5 hp, 7.5 hp, 3 hp, 2 hp.

Purpose : For finishing polish of Ply/Board/Door.



Automatic Brush Sanding Machine

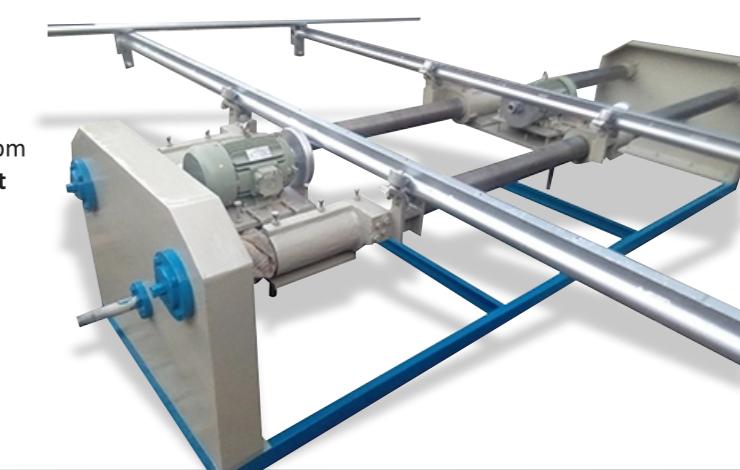
- ✓ 6 brush roller.
- ✓ 8 feeding rollers.
- ✓ Electric panel with size display.
- ✓ Dust collector
- ✓ Motorised size adjustment.



D.D. Saw Machine

- ✓ Heavy duty M.S. fabricated structure for durability and strength of the machine.
- ✓ Housing made of high quality graded cast iron for durability.
- ✓ Seamless pipe 110 mm dia., 9 mm thickness for structure
- ✓ 2 motors, brand Crompton, 7.5 HP/2800 rpm.
- ✓ Original Branded Bearings for smooth and excellent performance.
- ✓ Motors required: 7.5 HP/2800 rpm & 7.5 HP/2800 rpm

Purpose : For Trimming Ply/Door/Board in different dimensions.



Cold Dry Press (8'x4')



- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Equipped with 12 Heavy duty Feeding Rubber Rollers(210 mm diameter).
- Stainless Steel tank of 300 Ltr capacity.
- Original Branded Bearings for smooth and excellent performance.
- 16 mm plate used for Heavy Duty Structure.
- 3/4" chain and gears for smooth performance.
- Manual wheels for size adjustment.
- Panel Included.
- Motors required: 5 HP/1440 rpm & 1 HP/1440 rpm
- Purpose : For uniform chemical coating of Ply/Board/Door.**

Automatic Steel Wool Machine

- Motorised size adjustment.
- Heavy duty structure.
- Including dust collector.



AMONIA FACE DIPPING CHAMBER

- Heavy duty structure.
- 3 fan for air pressure.
- Trolley & tray included for face.
- Capacity 1000 leaves (aprox.)





LVL (Laminated Veneer Lumber) Cutter Machine

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Equipped with Heavy Trolley and machined Lines for accurate cutting.
- Original Branded Bearings for smooth and excellent performance.

- 3" Gearbox for trolley movement.
- 5/8" Duplex chain for smooth performance.
- Motors required: 3 HP/1440 rpm , 25 HP/1440 rpm

Purpose : For ripping laminated veneer lumber.



Grooving Machine

- Heavy duty structure
- Drive to control feeding speed
- Pneumatic Cylinder for feeding pressure
- Heavy duty structure
- Electric panel and motors included

Purpose : For Grooving in container flooring



Buffing Machine

- Heavy duty M.S. fabricated structure for durability and strength of the machine.
- Equipped with Heavy Trolley and 4 solid wheels.
- Main Shaft of 90 mm diameter for efficient BUFFING.
- Original Branded Bearings for smooth and excellent performance.
- 3" Gearbox for trolley movement.
- 5/8" Duplex chain for smooth performance.
- 28 pcs 14" Fiber wheels included.
- Motors required: 3 HP/1440 rpm , 25 HP/1440 rpm

Purpose : For finishing polish SS Plates of Shuttering Ply production PRESS.

