

MTECH

YOUR WOODWORKING SOLUTION



PLYWOOD MACHINE

CATALOGUE



TABLE OF CONTENT

01

INTRODUCTION

- COMPANY PROFILE

02

PLYWOOD MACHINE

- LOG DEBARKER 5 FEET
- LOG DEBARKER 9 FEET

03

PLYWOOD MACHINE

- SPINDLELESS 5 FEET WITH CUTTER
- SPINDLELESS 9 FEET WITH CUTTER

04

PLYWOOD MACHINE

- ROTARY CUTTER SETS
- ROTARY CLIPPER 6 FEET

05

PLYWOOD MACHINE

- PRESS DRYER

06

PLYWOOD MACHINE

- SEMI AUTOMATIC INPUT ROLL DRYER

07

PLYWOOD MACHINE

- WIRE NET DRYER (WITH SPRING)

08

PLYWOOD MACHINE

- CORE VENEER COMPOSER 8 FEET

09

PLYWOOD MACHINE

- GLUE SPREADER 5 FEET
- GLUE SPREADER 9 FEET

10

PLYWOOD MACHINE

- COLD PRESS
- HOT PRESS 15 OPENING

11

PLYWOOD MACHINE

- SANDER ROUGHING
- SEMI AUTOMATIC DOUBLE SIZER

12

PLYWOOD MACHINE

- KNIFE GRINDER 9 FEET

13

PLYWOOD MACHINE

- AUTO STACKER
- TABLE LIFTER

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COMPANY HISTORY

PT. Amtech was established in 2001 with an objective to offer woodworking premium quality machine as distributor of Taiwan Woodworking Machines.

Co-founder, Mr. Suyono Indra spotting a huge prospect of woodworking business opportunities then he extends his business by manufacturing it's own machines such as High Frequency, Computer Numeric Control, Shrinking Machine, Water Spray Booth, Dry Spray Booth, Vacuum Treatment, Double Cutting, Assembling Press, etc.

To full fill customer's needs in term of budget and various machine type, PT.Amtech establish cooperation with China Woodworking Supplier and it makes business growth not only as distributor and manufacture but it covering woodworking factory consultant services.

What the Company Does

- Woodworking machine manufacturing
- Taiwan and China woodworking machine distributor
- Woodworking factory consultant

STRATEGY

Vision

To be a leading company who provide "One Stop Solution" service in woodworking industry

Mission

To carry out of "Continuous Improvement" in order to achieve major breakthroughs in product and service quality

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LOG DEBARKER 5 FEET

If the logs are peeled directly without going through the Debarker machine, the fiber bark beams are easily attached. And there is metal sand and earth in the bark, these things easily damage the blade during veneer cutting work, so the bark must be removed before entering the rotary veneer machining process. This machine is the main equipment for bark removal and before veneer peeling work.



SPECIFICATION

Max length of log	1300mm
Max diameter of log	700mm
Left log diameter	1600x180x16mm
Size blade	15kw
Double roller motor	11kw
Hydraulic roller motor	5.5kw
Size	4600x2200x1100mm
Weight	5500kg

LOG DEBARKER 9 FEET



This machine is manufactured and designed based on 5 feet Wood Log Debarker machine, applicable for 1000-2600mm wood log debarking work. Due to 9 feet, long working width of the wood log debarker our company added two strong guide rail devices in this debarking lathe, and we have a special and considerable design in the debarking cutting table track slot, ensuring this machine works stably, prolonging the service life, convenient to carry out maintenance. Machines can be customized according to customer requirements.

SPECIFICATION

Double roll diameter	200mm
250 square reducer	2 x 11kw Siemens
Single roll diameter	150mm
250 square reducer	2 x 7.5kw Siemens
Feed Hydraulic station	1 x 5.5kw Siemens
Rotary cut thickness	1.5-3.6mm
Rotary cutting speed	35m/min
Maximum diameter	700 minimum 100mm
Weight	6.5T

SPINDLELESS 5 FEET WITH CUTTER



It is the main equipment for core veneer production and is mainly used for turning fast-growing bark, poplar, birch, rubber, and others and can also peel wood logs that have already been processed by a spindle peeling machine. This is normal model of veneer peeling machine and max. the diameter of processing wood logs is 500mm. The minimum diameter of the wood core after peeling is 28mm because it is spindleless.

SPECIFICATION

Max peeling length of log	1300mm
Max diameter of log	500mm
Left log diameter	28mm
Veneer Cutting thickness	1.0-3.0mm
Size of peeler blade	1500x180x16mm
Cutting speed	50 meters/min
Total Power	
Single roller motor	7.5 kw
Double roller motor	11kw
Feeding motor	7.5 kw
Slitting motor	1.5 kw
Conveyor motor	1.5 kw
Weight	6000KG
Dimension	4500x2350x1550mm

SPINDLELESS 9 FEET WITH CUTTER

This machine is the main equipment for core veneer production, the length of the wood is 2000mm-2600mm, and the minimum diameter of the wood core after peeling is 30mm.



SPECIFICATION

Double roll diameter	125mm
Single roll diameter	100mm
Feeding servo motor	1*11kw
Cutter	1*4KW Siemens
Glue roll	1*4KW Siemens
Adjusting the seam and feeding (four linear guides)	
Screw diameter	95mm (zinc-based alloy)
Control box	feed 11kw servo controller (Kovo)
Speed control	37kw English Teng, sickle 4kw English Teng
Remote monitoring	
Rotary cutting	speed 0-86 m / min
Rotary cutting	thickness 0.3-2.0mm
Maximum diameter	550-32mm
Weight	10T

ROTARY CUTTER SETS

This machine is the main equipment for core veneer production.



SPECIFICATION

Peeling max diameter	Ø1500mm
Peeling length	2600mm
Peeling veneer thickness	0.2-2.6mm
Peeling tolerance max	0.05mm
Speed	0-120m/min
Axis diameter	110mm
Axis rotate speed	0-90rpm
Active force	22kw
Peeling Power	30kw
Dimension	7500x2200x3400mm
Weight	9000kg

ROTARY CLIPPER 6 FEET



This machine is the main equipment for core veneer production.

SPECIFICATION

Power	2 * 7.5kw
Speed adjustable	From 10-120m/min
Veneer thickness	0.4-4mm
Main machine	L*W*H 2700*1000*1100 mm
Input & Output area	Each 2.5m
Total Input and Output area	Total input and output area 5 m
Axis Distance from floor to input area rotate speed	1 m
Total weight	About 2 tons

PRESS DRYER



Press Dryer machine is the primary machine for producing plywood. This Breathing type Press Dryer is applicable for removing the moisture of Core Veener, drying, and leveling. Core Veener after drying will flatten and shrink quite well.

SPECIFICATION

Model	Hollow	Model	Platen
Burned Type	Cylindrical fixed Grate	Platen size	2700×1370×40mm×16 pcs
Rated heating power	2400KW	Input side	From Side of Machine Width 1370 mm
	200*10 ⁴ kcal/h	Opening distance	50mm
Thermal Efficiency	83%	Hydraulic cylinder size	Φ120×800mm×4 pcs
Thermal Oil pipe diameter nominal	Φ150	Operating Pressure	0—10Mpa
Rated working pressure (Mpa)	0.8	Max Operating Pressure	10Mpa
Max. working temperature	300	System Control	Fully automatic electric panel control
Feed oil temp (°C)	300	Standing Board Width	300mm
Rated circle oil Temp (°C)	300	Frame welding method	Carbon dioxide shielded welding
Heat exchange area (m ²)	146	Basic dimensions	3600×1500×1700mm
Air preheater heat area (m ²)	14	Low pressure pump	50 Medium Pressure Pump
Fuel	biomass fuel wood	Low pressure pump Motor power	11kw
Design Heat Efficiency (%)	83	Dimensions	3550×1370×3000mm
Smoke Temp (°C)	100-170	Platen Grooving	4×4 Model
Hydraulic pressure test (Mpa)	0.7	Simultaneously closing	
In case /out case specifications (mm)	Φ51*3		
grate diameter (mm)	Φ1580		
oil capacity (m ³)	160		
Circular Oil capacity	160 m ³		
Oil Capacity in the thermal oil boiler	2 m ³		
piping diameter (mm)	Φ150		
the upper big part transport dimension (mm)	5100*2623*2673		
chassis transport dimension	2646*2646*1520		
installation dimension (mm)	Φ2230*4830		
Machine overall dimension	2700*2700*7000		
Total weight (t)	15.5 T		
Full system total power (KW)	55+18.5+5.5+1.5=80.5KW		

SEMI AUTOMATIC INPUT ROLL DRYER

This machine is the main equipment in plywood production. It is suitable for production processes that cut pre-drying. It is especially suitable for drying thick veneers (1-6mm). It consists of a front-drive frame, a rear drive frame, a drying area, and a cooling area. The standard machine drying area has 11 sections and the cooling area has 1 section each. The section is 2 meters long. The machine can be customized according to the user's production requirements.



SPECIFICATION

Model	AMT-30.30 Series
Working Width	6100mm
Num of Decks	4 Decks
Heating Area	14 section×2000mm = 28000mm
Cooling Area	2 section×2000mm = 4000mm
Input Area Width	12000mm (With Semi Automatic Feeder)
Output Area Width	12000mm (2 seperated output area, with table lifter)
Heat Release Unit	4 Unit, length 2000mm × width 900mm × height 1800mm
	4 Unit, length 2000mm × width 800mm × height 1800mm
	4 Unit, length 2000mm × width 700mm × height 1800mm
	2 Unit, length 2000mm × width 600mm × height 1800mm
Total Power	394KW
Transport Motor	15kw×4 Unit = 60kw Frequency Control
Heating Blower Motor	22kw×14 Unit = 308kw
Cooling Area fan motor	7.5kw×2 Unit = 12kw + 5.5kw x 2 Unit = 26kw
Transmission Speed	1-30m/Minute
Heating medium	Steam or thermal oil
Drying thickness	1-4mm
Veneer initial water content	60%-80%
Veneer final moisture content	10±2
Roller distance	250mm
Roller material	Galvanised Steel
Roller diameter	102mm
Number of rollers	1200 pcs
Blowpipe	Length 6100×Width 120×Height 150mm
Number of blowpipes (Jet Box)	1024 pcs
Dimensions	Length 57m (Front 12m + Body33m + Tail 12m) ×Width 7.56m×Height 4.3m
Shipping Container	8 Large Container Boxes
Gross Weight	Around 165000kg

WIRE NET DRYER (WITH SPRING)



Wire Net Dryer is the main equipment for veneer manufacturing in a plywood factory, mainly used for drying coating decoration. It consists of a front DRIVING FRAME and a rear DRIVING FRAME, a drying area, and a cooling area. The standard drying machine area has 11 sections and the cooling area has 1 section, each section 2 meters. The machine can be customized according to the user's production requirements. This machine has good fast drying speed, high productivity, ease of maintenance, and safe operation.

SPECIFICATION

Model	AMT-30.30 Series
Working Width	3400mm
Num of Decks	3 Decks
Heating Area	16 section × 2000mm = 32000mm
Cooling Area	2 section × 2000mm = 4000mm
Input Area Width	3000mm
Cooling Area at the Output	25000mm (With 3 unit Air Clipper at output area, and conveyor belt)
Total Power	212.5kw
Conveyor Motor	7.5kw×3 Unit=22.5kw Frequency Control
Heating Blower Motor	11kw×16 Unit= 176kw
Cooling Area fan motor	(3kw×2 Unit= 6kw) + (4kw × 2 Unit = 8 kw) = 14kw
Heat Release Unit	4 unit, length 2000mm × width 700mm × height 1800mm 4 unit, length 2000mm × width 600mm × height 1800mm 4 unit, length 2000mm × width 500mm × height 1800mm 4 unit, length 2000mm × width 400mm × height 1800mm
Transmission Speed	1-30m/Minute
Heating medium	Steam or thermal oil
Drying temperature	160-190°C
Drying thickness	0.2-4mm
Veneer initial water content	60%-80%
Roller Veneer final moisture content	10±2
Spring Diameter	12mm
Spring Thickness	1.8mm
Spring Length	3100m
Mesh belt material	Galvanized Steel
Mesh size	25mm X 25mm
Number of mesh belts	Length 500 M X Width 2.7 M
Roller diameter	89mm
Roller spacing distance	500mm
Number of rollers	4 pcs
Blowpipe Size(Jetbox)	Length 3400 × width 380 × height 120m
Number of blowpipes (Jetbox)	700 pcs
Dimensions	Length 65m (head 3m + body 37m + tail 25 meters) × Width 4.76m × Height 3.5m
Shipping Container	5 Large Container Boxes
Gross Weight	Around 105000kg

CORE VEENER COMPOSER 8 FEET

One operator required, no overlaps or open joints, no breaks.

Save 70% CORE completion
 Save 80% on assembly work
 Save 50% of caulking work



SPECIFICATION

Knife length	2700 mm
Working veneer width	1950-2560 mm
After jointing size	2600x1300 mm
Veneer thickness	1.2-4.0 mm
Feeding speed	24(can be adjust) Max. m/Min
Number of glue threads	8-10(as your required) Rows
Number of detectors	0-25(Max);11 normal Point
Total power required	28 kw
In- feed conveyor (controlled by Servo Motor)	4.5 kw
Defect clipper	50x75 Air- operated
Waste divider	4.5 kw
Out feed conveyor (controlled by Servo Motor)	4.5 kw
Dimension clipper	2.2 kw
Cooling fan	0.33 kw
Water cooler	1.7 kw
Water circulation pump	0.08 kw
Heater for glue melting for edge and yarn application	10(discontinuity) kw
Table lifter for stacker	2.2 kw
Transferring conveyor	0.75 kw
Stacker belt conveyor	0.75/0.4 kw
Air consumption	60 Liter/Min
Total gross weight	12500 kg
Shipping measurement	2.4*3.8M*2.7M(composing part) ,2.25x3.375x (Container 40' x 1 unit)

GLUE SPREADER 5FT



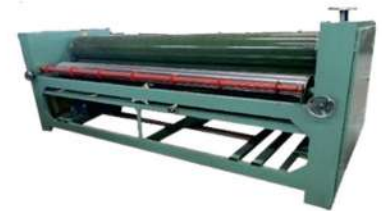
A glue spreader machine is used to spread the glue on the surface of Core Veneer, Multi-Layer Board, Plywood, Block Board, and so on. This machine has three-roller, the variant which has three rollers is the single side adhesive coating machine.

SPECIFICATION

Roller quantity	4 pcs
Working speed	24-90m/min
Diameter of glue coating roller	246mm
Length of glue coating roller	1400mm
Rubber thickness	13mm
Diameter of glue squeeze roller	217mm
Length of glue squeeze roller	1400mm
Reducer	2 cycloidal pin
Power of motor	3kw
Max. Veneer thickness	20mm
Max. Veneer width	1400mm
Overall size	2100*1300*1400mm
Machine weight	1000 kg

GLUE SPREADER 9 FEET

A glue spreader machine is used to spread the glue on the surface of Core Veneer, Multi-Layer Board, Plywood, Block Board, and so on. This machine has three-roller and four-roller variants. The variant which has three rollers is the single side adhesive coating machine and the variant which has four rollers is the double side adhesive coating machine. Glue Spreader Machine is divided into 4ft, 5ft, 8ft, 9ft, and so on, all of them can be customized according to client requirements.



SPECIFICATION

Max processing length	2700mm
Rubber roller diameter	310mm
Max working thickness	70mm
Glue spreading speed	24-90m/min
Chromatin treatment roller diameter	270mm
Number of roller	4
Motor power	3kw
Overall dimension	3500*1200*1400mm
Weight	1800kg

COLD PRESS

This plywood machine is known as a cold press machine. The engine parts are divided into an upper cylinder and a lower cylinder. Before the board is inserted into the hot press machine, it must be pressed by the cold press machine. At first, the veneer is assembled, the pressed method can shorten the hot pressing cycle time and improve the quality of the plywood. Sheet boards are easy to transport and reduce the distance between hot plates.



SPECIFICATION

Hydraulic cylinder size	Ø360 x 800mm x 2pcs
Hydraulic tonnage	500 ton
Table open file	1800 mm
Pressure	0-25 Mpa
Max Pressure	25 Mpa
Control system	Semi-automatic auto complete plate control
Next beam high	900/400/900 mm
State board width	400 mm
Frame work plate thickness	Carbon-dioxide protection welding
Basis size	3800 x 1500 x 1700 mm
Low pressure pump	100 air pump
Motor power	5.5 kw
Dimension	3580 x 1370 x 4200mm
Weight About	13 ton



HOT PRESS 15 OPENING

Hot press is one of the main machines in the plywood production process. It is a machine for hot pressing boards after applying glue. Different types of plywood have different performance requirements: ordinary plywood, aero plywood, plastic panels, and laminated plastic panels are necessary to increase the pressure at its turn.

SPECIFICATION

Hot plate size	2700 x 1370 x 42mm 16 block
Layer spacing	70mm
Hydraulic cylinder size	Ø360 x 1050mm x2
Hydraulic tonnage	500ton
Pressure	0-25Mpa
Control system	25Mpa
Next beam high	900/400/900mm
State board width	400mm
Frame work plate thickness	35mm/20mm/16mm/10mm
Framework processing way	Carbon dioxide protection welding
Basis size	3800 x 1500 x 1700mm
Low pressure pump	280 aviation within pharyngeal close gear pump
Motor power	11kw
High pressure pump	10ml/rev pump
Motor power	5.5kw
Dimension	3550 x 1370 x 4100mm
Weight about	32ton

SANDER ROUGHING



Sanding machines are used to smooth wood or other materials with better and more efficient results.

SPECIFICATION

Sanding Width	40-1300mm		
Sanding thickness	10-80mm		
Abrasive belt speed	25m/s		
Size of sanding belt	1330*2500mm		
Voltage	380V 50Hz	CHINT	Schneider
Main motor	55kw*1 45KW*1		
Transport reducer	11 kw		
Transport speed	10-30m/s		
Lifting motor	0.75kw		
Brushing motor	0.37kw		
Total motor	112kw		
Operating pressure	0.6MPa		
Dust extraction			
Roller Diameter	300mm 400mm		made Taiwan
Dimension	2400*2770*2440		
Weight	8.5kg		

SEMI AUTOMATIC DOUBLE SIZER

This sawing machine is composed of infrared positioning, pre-loading device, longitudinal trolley tighten section, longitudinal trolley chain transmission, longitudinal saw head, transverse trolley, transverse saw head, transverse trolley chain transmission, and automatic stacker. All working processes are controlled by PLC. So in the production of plywood/particleboard/blackboard, size cutting will be automatic.



SPECIFICATION

Long saw cutting size	1830-2440mm
Lateral saw cutting size	915-1220mm
Working speed	10-30m/min
Power	42kw
Saw blade dimension	φ 305mm, inner φ 25.4mm
Capacity	8-12pcs/min
The working style	Infrared ray guidance
Feed methods	Full Automatic
Work methods	Full Automatic
Weight	5000kg
Overall dimension	8000*5000*1200mm

KNIFE GRINDER 9 FEET

The knife grinder is the equipment used to grind knife blades to enhance the accuracy of the knife blade. During plywood production, the blades of the Veneer Peeling machine and the Debarker machine need to be grinded regularly. The body of the blade grinder adopts the national standard double steel and the basement adopts the heavy steel sheet. Through special and healthy care, the knife grinding machine has more stability, no vibration during working and no deformation after a long time using.



SPECIFICATION

Grinding length	3200mm
Table area	3180*180mm
Wheel size	200x100x32mm
Grinding accuracy	≤ 0.5mm
Voltage	380v
Grinding speed	0-17mm (adjustable)
Grinding adjustable angle	±5degree
Table adjustable angle	±90degree
Grinding transmission	mode frequency motor
Grinding power about	5.5kw-4
Lift motor power	1.5kw dedicate motor
Walking motor power	0.75kw-4
Water pump power	0.125kw
Total power about	8.0kw
Total weight about	2800kg
Dimension	5000x1300x1500mm

AUTO STACKER



The Auto Stacker machine is connected with the veneer peeling machine and is used to stack the veneer automatically. It can also sort bad veneers from good veneers, such as perforated veneers. The Auto Stacker machine is divided into a vacuum adsorption stack machine and a swing stack machine

SPECIFICATION

Model	5 Feet	9 Feet
Veneer width	< 1400 mm	< 1400 mm
Veneer length	2600 mm	2600 mm
Veneer thickness	0.5-4.0 mm	0.3mm-1.0mm
Stacking speed below	80meter	80meter
Stacking height	1200mm or less	1200mm or less
Classify type has 2 level		Waste veneer plate and grade 1 veneer plate
External dimension	10*3.3*2.6m	10*3.3*2.8m
Installed power	36kw	21kw
Fan specification	2.2kw 12sets (fan frequency conversion)	1.5kw 6 sets (fan frequency conversion)
Lifting method Hydraulic lifting platform	Whole board external transmission bring the reducer chain automatically to outside	Whole board external transmission self
Curb weight		4 tons

TABLE LIFTER

This machine is one of the auxiliary machines in the production of wood panels, it can be used for plywood panels, particle board, MDF/ HDF. Lifting and stacking work, convenient for loading boards into hot press, and removing boards from hot press, is an important auto line equipment, saving more labor and improving efficiency to a great extent.



SPECIFICATION

Model	Regular	Long
Max lift height	1500mm	3000mm
Max lift weight	3ton	3ton
Plane cover thickness	3mm	3mm
Power	3kw	3kw
Dimension	2300 x 1100 x 600mm	3400 x 1300 x 800mm
Max working pressure	1ton	1ton

ONE STOP SOLUTION





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Woodworking Machines , Design , Layout , Installation , Consultation**

 Jl. Tambangan no. 8, Taman, Sidoarjo - 61257
East Java - Indonesia

 +62-31-7883775/7883776/7883780/7883781

 ptamtech.com

  @ptamtech

 amtech official