

PRODUCT BROCHURE



Head Office: 877B, Phu Thanh Ward, Tan Phu Dong District, Tien Giang Province, Vietnam **Branch**: 225 Highway 50, Ward 4, Precinct 9, My Tho City, Tien Giang Province, Vietnam **Hotline**: (+84) 906.550.662 **Email**: tanphuocdong.mechatronics@gmail.com

Tan Phuoc Dong Mechanics and Automation Co., Ltd., founded in 2012, is one of the leading companies in manufacturing wood sawmill and woodworking machines. Our primary goal is to develop cutting-edge mechanical solutions that enhance productivity and streamline operations for our clients across various industries. We strive to create automated systems that not only improve accuracy and reduce labor costs but also contribute to sustainability by minimizing waste and energy consumption. Through a collaborative approach, we aim to understand our clients' unique challenges and tailor our designs to meet their specific needs

Awards and Certificates





Founder & CEO

CEO Biography

- Date of birth : 05/28/1984 Place of birth
 - : Tien Giang Province
- : Master degree (Pukyong National University South Korea); Qualification Bachelor Degree (Hochiminh University of Technology - Vietnam)
 - : Mechanical Design and Manufacturing; Automatic Control

Research topics: Machine design; Machine manufacturing; Electrical circuit design; Robust control; Machine condition monitoring, Machine vibration...

Publications

Major

: https://www.researchgate.net/scientific-contributions/Hong-Thom-Pham-70404129

PRODUCTS

- HORIZONTAL WOOD SAWMILL
- **2** VERTICAL WOOD SAWMILL
- **3** AUTOMATIC BOARD EDGER
- **4** BANDSAW BLADE SHARPENER
- **5** CIRCULAR SAW BLADE SHARPENER
- **6** NARROW BANDSAW BLADE SHARPENER & SETTER
- **7** BANDSAW BLADE SWAGING MACHINE
- 8 WOOD CNC ROUTER
- 9 WOOD CNC LATHE
- **10** BAND WHEEL LATHE
- **11** SINGLE BLADE EDGER
- **12** B
 - **BANDSAW BLADE WELDING & LEVELING MACHINE**
 - **13** STELLITE TIPPED BANDSAW BLADE

Horizontal Wood Sawmill



Model: <u>DSM-160M</u> Power: Diesel Engine 50Hp Max Log Dia.: 140cm Band wheel Dia.: 96cm Blade length - width: 840cm-12cm Blade Tension: Screw - Visme Head Up/Down: Gear chain system Head Forward/Reverse: Gear chain system



Model: <u>EDSM-160M</u>

Power: - Control system: Single Phase 220VAC

Sawmill: Diesel Engine 50Hp

Max Log Dia.: 140cm
Band wheel Dia.: 96cm
Blade length - width: 840cm-12cm
Blade Tension: Automatic hydraulic System
Head Up/Down: Automatic Control (Induction motor + Encoder)
Display: LCD screen
Up/Down Resolution: 1mm

Horizontal Wood Sawmill

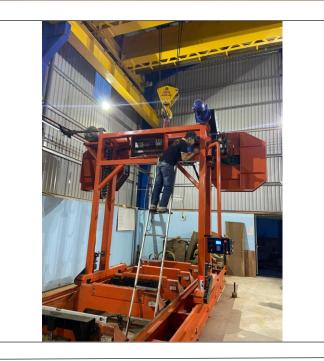




Model: <u>AHT-1200-HS</u> Power: 25Hp, three phase 380VAC Max Log Dia.: 95cm Band wheel Dia.: 85cm Blade length - width: 640cm - 12cm Blade Tension: Automatic hydraulic System Head Up/Down: Automatic Control (Induction motor + Encoder) Display: LCD screen Up/Down Resolution: 1mm

Model: <u>AHT-1600-HS</u> Power: 40Hp, three phase 380VAC Max Log Dia.: 135cm Band wheel Dia.: 106cm Blade length - width: 840cm - 12cm Blade Tension: Automatic hydraulic System Head Up/Down: Automatic Control (Induction motor + Encoder) Display: LCD screen Up/Down Resolution: 1mm

Horizontal Wood Sawmill



Model: <u>AHT-2200-HS</u> Power: 50Hp, three phase 380VAC Max Log Dia.: 195cm (76.7") Band wheel Dia.: 120cm (47.2") Blade length - width: 980cm - 12cm (385.8" - 4.7") Blade Tension: Automatic hydraulic System Head Up/Down: Automatic Control (Induction motor + Encoder) Head Forward/Reverse: Variable speed control Display: LCD screen Up/Down Resolution: 1mm



Model: <u>AHT-1200-FSV</u> Power: 25Hp, three phase 380VAC Max Log Dia.: 65cm Band wheel Dia.: 85cm Blade length - width: 640cm - 13.5cm Blade Tension: Automatic hydraulic System Head Up/Down: AC Servo motor control (Resolution: 0.1mm) Head Forward/Reverse: AC servo motor control (Double cut) Display: HMI touch screen Log process: Fully

Vertical Wood Sawmill



Model: <u>VWS-1100AT-01</u> Power: 40Hp, three phase 380VAC Max Log Dia.: 65cm (25.5") Band wheel Dia.: 110cm (43.3") Blade length - width: 840cm - 14cm (330.7" - 5.5") Blade Tension: Automatic hydraulic System Head blocks: AC Servo motor control (Resolution: 0.1mm) Head Forward/Reverse: Variable speed control (Double cut) Display: 10" HMI touch screen Log process: Fully



Model: <u>VWS-1100AT-02</u> Power: 40Hp, three phase 380VAC Max Log Dia.: 65cm Band wheel Dia.: 110cm Blade length - width: 840cm - 14cm Blade Tension: Automatic hydraulic System Head Up/Down: AC Servo motor control (Resolution: 0.1mm) Head Forward/Reverse: AC servo motor control (Double cut) Display: 7" HMI touch screen Log process: Fully

Crossties Production Line (Twin Vertical Sawmill)



Model: <u>TVWS-900AT</u> Power: 25Hp x 2, Three phase 208VAC Max Log Dia.: 50cm (19.6") Band wheel Dia.: 85cm (33.4") Blade length - width: 640cm - 12cm (330.7" - 4.7") Blade Tension: Automatic hydraulic System Head In/Out: AC Servo motor control (Resolution: 0.1mm) Log Forward/Reverse: AC servo motor control Display: 7" HMI touch screen Log process: Fully

Automatic Board Edger



Model: <u>TPD-350Z</u>

Power: 11Hp x 2, Three phase 380VAC

Capacity: 55cm (21.6") width x 10cm (3.9")

Blade Diameter: 35cm (13.7")

Feed Speed: Electrically adjustable up to 50 MPM (165 FPM)

Blade Adjustment: 50 to 500 mm (1.96" to 19.6")

Display: 7" HMI touch screen

Cutting Edge: Manual



Model: <u>AED-350Z</u>

Power: 11Hp x 2, Three phase 380VAC

Capacity: 55cm width x 10cm thickness

Blade Diameter: 35cm

Feed Speed: Electrically adjustable up to 50 MPM (165 FPM)

Blade Adjustment: 50 to 500 mm

Display: 7" HMI touch screen

Cutting Edge: Automatically Detection

BANDSAW BLADE SHARPENER



Model: <u>SBS-01</u>

Power: 1Hp, single phase 220VAC

Blade Tooth Spacing Range: 16mm to 45mm (0.63" to 1.8"

Blade Width Range: 20mm-150mm (0.78" - 5.9")

Max Feed Speed: 80 teeth per minute

Preset Blade Angle Range: 0 to 45 degree

Display: 7 segment LED

Blade type: Swaging, Carbide, Stellite (Single Side)



Model: <u>SBS-02</u>

Power: 1Hp, single phase 220VAC
Blade Tooth Spacing Range: 30mm to 45mm
Blade Width Range: 90mm-150mm
Max Feed Speed: 80 teeth per minute
Preset Blade Angle Range: 0 to 45 degree
Display: 7 segment LED
Blade type: Swaging, Carbide, Stellite (Double Side)

CIRCULAR SAWBLADE SHARPENER



Model: <u>CNC-TRB-01</u> CNC Axis Number: 3 Grinding Motor Power: 1Hp, single phase 220VAC Blade Diameter Range: 180mm to 450mm (7.1" to 17.7") Grinding wheel Diameter: 150mm (5.9") Grinding Wheel Angle: Auto-control (-30 to 30 degree) Blade Pattern Memories: over 100 Display: 7" HMI Touch Screen



Model: <u>CSG-600</u>

CNC Axis Number: 4

Grinding Motor Power: 1Hp, single phase 220VAC

Blade Diameter Range: 180mm to 600mm

Grinding wheel Diameter: 150mm

Grinding Wheel Angle: Auto-control (-30 to 30 degree)

Blade Pattern Memories: over 100

Display: 7" HMI Touch Screen

NARROW BANDSAW BLADE SETTER AND SHARPENER



Model: <u>BWS-01</u>

Overall Size (LxWxH): 600x400x600 mm

Power: 1Hp, single phase 220VAC

Blade Tooth Spacing Range: 8mm to 16mm (0.31" to 0.63"

Blade Width Range: 10mm-30mm (0.4" - 1.2")

Max Feed Speed: 480 teeth per minute

Display: 7 segment LED



Model: <u>BBS-01</u>

Overall Size (LxWxH): 600x450x700 mm Grinding Motor Power: 1Hp, single phase 220VAC Blade Tooth Spacing Range: 8mm to 16mm Blade Width Range: 10mm-30mm Max Feed Speed: 120 teeth per minute Preset Blade Angle Range: 0 to 30 degree Display: 7 segment LED

WOOD CNC ROUTER



Model: <u>CRT-2500</u>

X,Y, Z Axis Travel: 1200x2500x200 mm Spindle Type: 2.2kw water cooling spindle, 24000 rpm, ER20 Control system: XC609M Driving system: 750W Leadshine hybrid servo motor Travel Speed: 40m/min Working speed: 0 to 25 m/min System resolution: 0.01mm Working Voltage: 220V 1PH 50HZ/60HZ



Model: <u>CRT-3000</u>

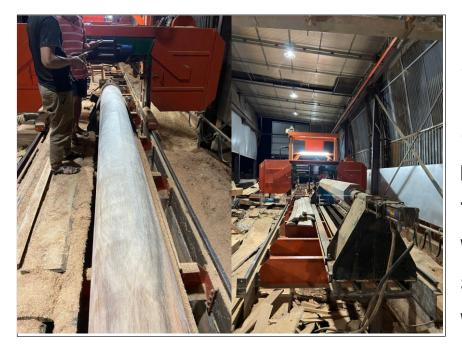
X,Y, Z Axis Travel: 3000x3000x200 mm Spindle Type: 2.2kw water cooling spindle, 24000 rpm, ER20 Control system: Computer - NC STUDIO SOFTWARE Driving system: 1000W Leadshine hybrid servo motor Travel Speed: 40m/min Working speed: 0 to 25 m/min System resolution: 0.01mm Working Voltage: 220V 1PH 50HZ/60HZ

WOOD CNC LATHE



Model: <u>WCL-2200</u>

X, Z Axis Travel: 2200x500 mm Spindle Type: 3.7kw water cooling spindle, 24000 rpm, ER3 Control system: Computer - NC STUDIO SOFTWARE Driving system: 1500W AC servo motor Travel Speed: 40m/min Working speed: 0 to 25 m/min System resolution: 0.01mm Working Voltage: 380V 3PH 50HZ/60HZ



Model: <u>WCL-7000</u>

X, Z Axis Travel: 7000x300 mm Spindle Type: 3.7kw, 2800 rpm Control system: Computer - NC STUDIO SOFTWARE Driving system: 1000W Leadshine hybrid servo motor Travel Speed: 40m/min Working speed: 0 to 25 m/min System resolution: 0.01mm Working Voltage: 380V 3PH 50HZ/60HZ

BAND WHEEL LATHE



SINGLE BLADE EDGER

Model: <u>BWL-1200</u> Overall Size (LxWxH): 1500x400x600mm Blade driving motor power: 2.2kw Feed motor power: 750kw Band wheel size range: 600 to 1200 mm Knife travel: 150mm Operation mode: profile copy Working Voltage: 220V 1PH 50HZ/60HZ



Model: <u>WCL-7000</u>

Blade Motor Power: 380V 3PH 50/60HZ, 3.7kw

Max board size: 6000x500x100mm

Max Feed Speed: 60m/min

System resolution: 0.1mm

Display: 7 segment LED

BANDSAW BLADE WELDING MACHINE



Model: <u>BWM-01</u>

Overall Size (LxWxH): 1000x700x1200 mm Weight: 90kg

Power: 1Hp, single phase 220VAC

Blade Width Range: 16mm to 150mm

Blade Thickness Range: 0.6mm-1.5mm

Welder: TIG/MIG

Post Weld Heat Treatment: High frequency induction heate Display: 7 segment LED

BANDSAW BLADE LEVELING MACHINE



Model: <u>BRM-01</u>

Overall Size (LxWxH): 2000x700x1200 mm

Weight: 100kg

Power: 1Hp, single phase 220VAC

Blade Width Range: 60mm-150mm

Rolling Speed: 12 meter per minute

SINGLE AND DOUBLE SIDE STELLITE TIPPED BANDSAW BLADE



Model: <u>STMB-01</u>

No.	Length(mm)	Width(mm)	Cutting Kerf (mm)
1	6400	105	2.2-2.6
2	7300	105	2.2-2.6
3	8400	105	2.2-2.6



Model: <u>STMB-02</u>

No.	Length(mm)	Width(mm)	Cutting Kerf (mm)
1	6400	135-150	2.2-2.8
2	7300	135-150	2.2-2.8
3	8400	135-150	2.2-2.8

Our company provides stelliting services both for new band saw blades and used blades with worn stellite layer.



We are always with you!