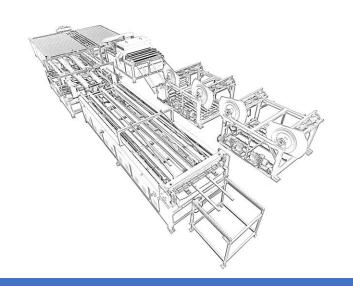


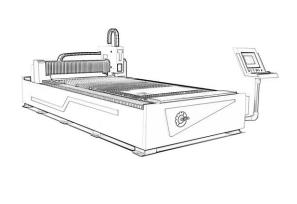
Alpha CNC Group Pty Ltd

21/2-4 Picrite Close, Pemulwuy NSW 2145

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One-stop Supplier of HVAC Machinery

Chill with Confidence, Your Complete HVAC Solution Source

Auto Duct Line VII

Features:

Experience unmatched efficiency and precision with our cutting-edge duct manufacturing system designed to elevate your production capabilities. Crafted with advanced features and a robust U-type structure, our system is engineered for optimal performance, achieving a remarkable productivity of 25 seconds per piece.



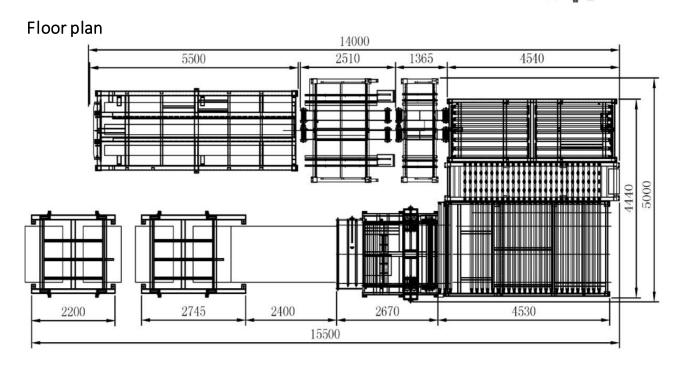
Key Features:

- ➤ U-Type Structure: Streamline your manufacturing process with our uniquely designed U-type structure, reducing plate passing time and boosting overall productivity.
- ➤ PLC controller with touch screen: Powered by the state-of-the-art Alpha PLC controller as the central processing unit, our system ensures seamless control and precision.
- ➤ Pittsburgh Seam Integration: The Pittsburgh Seam, seamlessly integrated after processing, ensures a high-quality finish for your air ducts.
- ➤ Tailored for Large Ducts: Specifically engineered for large-size duct production, our system prioritizes efficiency by bending the short side first, catering to the demands of large-scale projects.

Basic Configurations:

- Decoiler with 4 Coil Cradles to Cover Common HVAC Gauge 0.6mm, 0.8mm, 1.0mm and 1.2mm
- ▶9 Rolls Straightener, Beading and Notching
- ➤ Hydraulic Guillotine
- >PLC Controller with Touch Screen
- ➤ Pittsburgh Lock Roll Former
- ➤TDF Flange Forming
- ➤ Servo Motor Driven Bending Unit
- ➤ Unloading Rack
- ➤ Optional Plate Lamination Device





Model	Thickness(mm)	Width(mm)	Coil Capacity	Weight(kg)	Dimension(mm)
A1300-VII	0.6-1.2	1250	6000kg X4	16,000	15,000x5,000x2,200
A1600-VII		1550		18,000	15,000x5,500x2,200
B1300-VII	0.6-1.5	1250		17,000	15,000x5,000x2,200
B1600-VII		1550		19,000	15,000x5,500x2,200

Fiber Laser Cutting Machine

Specifications:



Model	3015ST/4015ST/6015ST			
Cutting Table Size	1500*3000/1500*4000/1500*6000mm			
X-axis Travel	3000mm			
Y -axis Travel	1500mm			
Z -axis Travel	80mm			
Laser Power	1.5KW/2KW/3KW/6KW			
Positioning Accuracy	±0.05mm			
Repetitive Accuracy	±0.03mm			
Rapid Speed	80m/min			
Power	3 Phase 415V/50Hz /100A			
Machine Weight	2300KG			
Dimension	4300*2670*1780mm			
Laser Source Laser Source	Raycus fiber laser 3KW/4KW/6KW			
Laser Head	Raytools			
CNC Controller	Cypcut - PC based CNC - easy integration into factory network			
Cabinet Electrical Components	SIEMENS/Schneider			
Machine Frame	SF3015H			
Water Chiller	Specialized for 1.5KW/2KW/3KW/6KW laser			

Application & Capability

Materials:

Carbon steel - Stainless steel - Aluminum alloy — Brass — Copper - Galvanized Steel - Titanium **Thickness:**

0.5-20mm carbon steel - 0.5-12mm stainless steel - 0.5-10mm aluminium - 0.5- 6mm brass













Industries:

Sheet metal manufacturing, Automobile, machinery manufacturing, elevator manufacturing, household appliances, kitchen and sanitary ware, signage, and other machinery manufacturing and processing industries.













Auto Duct Line III

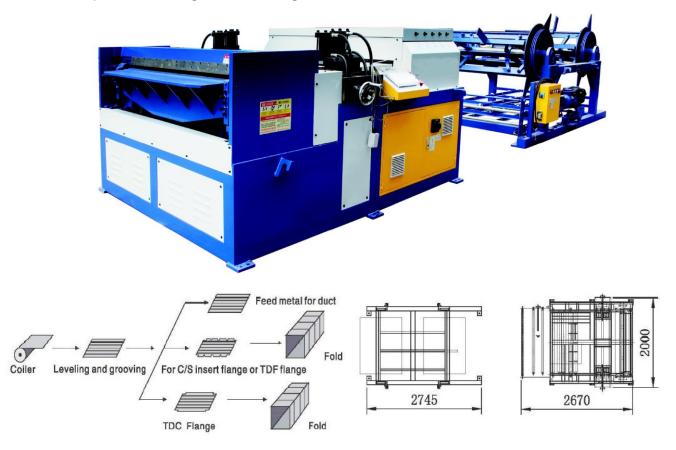
Our Auto Duct Line III is engineered for excellence, featuring a Leveling and Beading Unit, Notching Unit, and Hydraulic Shearing with Plate Bending. Experience unmatched efficiency with a maximum feeding speed of 16m/min and tight tolerances (±0.5mm length, ±0.8mm diagonal).

Basic Configurations:

- ➤ Decoiler with 4 Coil Cradles to Cover Common HVAC Gauge 0.6mm, 0.8mm, 1.0mm and 1.2mm
- PLC Controller with Touch Screen
- Optional: Plate Lamination Device
- > Optional: TDF Flange Holes Punching Device

Key Features:

- Leveling and Beading Unit
- Notching Unit
- > Hydraulic Shearing and Plate Bending



Model	Thickness(mm)	Width(mm)	Coil Capacity	Weight(kg)	Dimension(mm)
A1300-III	0.6-1.2	1250	coool va	3,500	8,850x2,160x1,350
A1600-VII	0.6-1.2	1550		4,000	8,850x2,460x1,350
B1300-III	0.6.1.5	1250	6000kg X4	3,800	8,850x2,160x1,350
B1600-III	0.6-1.5	1550		4,300	8,850x2,460x1,350

Coil Feeder

Unleash the power of precision with our coil feeder - a meticulously crafted coil line designed to seamlessly integrate with a laser cutting machine, revolutionizing HVAC production.

Key Features:

- Coil feeder with 4 motorized decoilers covering common gauges (0.6mm, 0.8mm, 1.0mm, 1.2mm).
- Cost-effective, waste-reducing alternative to flat sheets.

Seamless Integration with Laser Cutting:

Designed to equip with a laser cutting machine for unparalleled precision and efficiency.

Efficient Operation:

- Inline straightening and beading
- Removes coil set and prepares sheets for laser cutting.
- > Optional shear/guillotine for flat sheet cutting.

User-Friendly Controls:

➤ Operate effortlessly with a controller or a simple forward/backward jog switch, ensuring adaptability in your workflow



Model	Thickness(mm)	Width(mm)	Coil Capacity	Weight(kg)	Dimension(mm)
A1300-DC9	0.6-1.2	1250	soool va	3,000	7,150x2,160x1,350
A1600-DC9		1550		3,500	7,150x2,460x1,350
B1300-DC11	0.6-1.5	1250	6000kg X4	3,800	7,150x2,160x1,350
B1600-DC11		1550		4,300	7,150x2,460x1,350

Lock Forming Machine

ALPHA 12HB series pittsburgh lock forming machines are the most widely used machines in manufacturing ducts. They are light and easy to move. They are suitable for being used on site. This 7-station lock former offers 7 forming positions, Pittsburgh and auxiliary double seam, right angle flange, drive cleat with slitter, as well as top mounted power flanger.

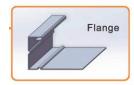
A12HA series specification

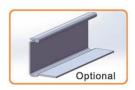
- > 0.5-1.2mm
- > Arc welded steel stand, heavy top plate
- > Roller material: GCr15
- > Roller shaft material: Thermal refined 45#
- > Transmission: V-belt
- > Control: Normal electric control



Model	Thickness(mm)	Forming Shape	Weight(kg)	Dimension(mm)
A-10HA	0.4-1.0		160	780x500x920
A-12HA	0.6-1.2		250	1,050x550x950
B-15HB	0.8-1.5		316	1,220x550x950
S-12HS	1.2SS		489	1,350x700x920

TDF Flange Forming Machine







Features:

➤Thickness: 0.6-1.5 mm

➤ High Precision: Accurate forming of TDF flanges for precise ductwork assembly.

➤ Automation: Automated processes for increased efficiency and reduced labour.

➤ Versatility: Capable of handling various duct sizes and materials.

➤ Durable Construction: Robust design for long-term reliability.

Safety Features: Incorporation of safety measures for operator protection.

➤ Low Maintenance: Minimal upkeep requirements for sustained performance.



Model	Thickness(mm)	Flange(mm)	Weight(kg)	Dimension(mm)
TDF-08	0.5-0.8		500	2,000x780x1,150
TDF-15	0.6-1.2	35	700	2,400x800x1,150
TDF-15	1.0-1.5		900	2,600x850x1,150

CNC Waterjet Cutting Machine

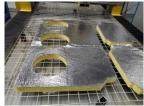


Features:

- ➤ Simple design, easy to set up
- > High precision rack and pinion driven machine
- ➤ High speed servo motor
- ➤ Integrated/split machine structure
- > Dust proof cover to protect linear rail and rack
- ➤ Wireless remote control
- > Graphic simulation
- > Designed for fiber glass insulation cutting.









Model	1530WJ	1560WJ		
Cutting range	3000x1500mm	6000x1500mm		
Z axis travel	100mm			
Tolerance	0.05mm			
Repeatability	0.03mm			
Thickness	25mm/50mm/75mm/100mm			
Max Speed	60m/min			
Max cutting pressure	3,200bar			

CNC Waterjet Cutting Machine

Alpha ultra high pressure pump



BFT40.11 Ecotron pump



Options

- Auto loading and unloading table
- > Auto abrasive cleaning system

HP75-300 Intensifier Pump					
Nominal Power Rate	7.5kW				
Max. Continuous Pressure	500-3,000bar				
Max. Water Flow Rate at Max. Pressure	1.7L/min				
Control Voltage & Power Supply	24VDC				
Nom. Motor Current	415V/50Hz 66A				
Max Noise Level	<92dB				
Control System	Siemens				
Min. Inlet Cutting Water Pressure	2bar				
Max. Nominal Stroke Rate	54Min -1				
Accumulator Volume	11				

BFT 40.11 Ecotron Intensifier Pump	
Nominal Power Rate	11kW
Max. Continuous Pressure	500-4,200bar
Max. Water Flow Rate at Max. Pressure	1.2L/min
Control Voltage & Power Supply	24VDC
Nom. Motor Current	415V/50Hz 66A
Max Noise Level	<80dB
Control System	BFT
Min. Inlet Cutting Water Pressure	2-4bar
Max. Nominal Stroke Rate	54Min -1
Accumulator Volume	1.6L

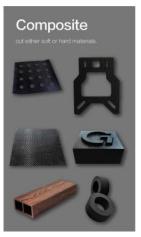
- Water chiller
- > Water soften system

Applications









Spiral Duct Forming Machine

LXB-100/1600HSR with Roll Shear - Elevate Your Duct Manufacturing

Discover precision and efficiency with our advanced Spiral Ducting Machine, meticulously designed to redefine your duct production process.

Features:

➤ High-Speed Forming Design:

Achieve unparalleled efficiency through our innovative high-speed forming mechanism.

➤ Roll-Shear or Cutting:

Swift, silent, spark-free cutting ensures a clean finish with minimal burrs.

➤ Versatile Thickness Processing:

Seamlessly switch between different thicknesses with dedicated forming and shearing units.

➤ Aluminium Tube Mould:

Lightweight and easily interchangeable aluminum tube mould for enhanced flexibility.



Tube mold

Forming Unit

Spiral Duct Forming Machine

LXA-100/1600 Features

> Low cost practical equipment with traditional structure

ightharpoonup Solid steel mould, strong and durable but heavier than aluminium mould













Model	Thickness (mm)	Diameter (mm)	Feedrate (m/min)	Cut-off	Weight (kg)	Dimension(mm)
LXA-100/1600	0.6-1.2	100-1600	0-25	Saw	1,200	2,940x4,460x1,900
LXB-100/1600HSR			0-60	Roll shear	1,500	3,150x4,560x1,350

Corner Inserter & Vertical Lock Seamer



Corner Inserter

The HVAC pneumatic duct corner assembly machine automates the installation of rectangular duct corner codes, eliminating the need for manual labor. With a swift operation time of approximately 6 seconds per corner, this machine efficiently replaces manual installation for corners.

Specifications:

Sheet Thickness: 0.5-1.2 mmPressure Range: 0.6-0.8 MPa

➤ Weight: 450 kg

Dimensions: 1500*800*1050 mm



Vertical Lock Seamer

Effortlessly streamline your HVAC ductwork production with the Alpha Vertical Duct Seam Closing Machine. This high-production solution ensures swift processing through your workshop, eliminating the need for traditional, timeconsuming seam hammering.

Key Features:

- Fast and efficient closure of Pittsburgh seams.
- > PLC controller for user-friendly operation.
- ➤ Wide working range: 1000mm ~ 1550mm duct seamer

Technical Specifications:

➤ Duct Height Range: 1000mm ~ 1550mm.

Closing Speed: 24m/min.

Galvanized Material Thickness Range: 0.6mm ~ 1.2mm

Compact Dimensions: 2250mm x 1000mm x 1100mm.

➤ Weight: 850kg.

Power: 415V 3 Phase.

Alpha CNC Group

Elevating Manufacturing Excellence

About Us

Welcome to Alpha CNC, a leading manufacturer and supplier of CNC machinery based in Sydney, Australia, with a dedicated factory in China. With over a decade of industry leadership, we specialize in providing high-quality fibre laser cutters, CNC press brakes, waterjet cutters, and HVAC machinery solutions to industries such as sheet metal manufacturing, automobile, machinery manufacturing, elevator manufacturing, household appliances, kitchen and sanitary ware, signage, and other machinery manufacturing and processing industries.

Our Legacy of Excellence

- **Global Reach:** Our CNC machinery solutions are designed to meet global standards while maintaining cost-effectiveness.
- **Expansion:** In 2016, Alpha expanded with a new factory in China to meet growing market demands.

Core Specializations

- HVAC Machinery: Turnkey solutions for the duct sheet metal industry.
- Fibre Laser Cutter: Precision and efficiency for metalworking.
- CNC Press Brake: Precision bending for metalworking projects.
- Waterjet Cutter: Cutting-edge technology for various materials and applications.

Commitment to Quality

- Stringent Testing: Every machine is tested by our application engineers before shipment.
- Client-Centric: Tailored solutions to meet the unique requirements of our clients.
- **Reliability:** We prioritize reliability, durability, and longevity in our machines.

HVAC Machinery Expertise

- **2017 Milestone:** Importing the first coil line into Australia.
- **Complete Solutions:** Turnkey solutions for the duct sheet metal industry.
- **Customer-Centric Approach:** Small Pittsburgh or automated duct line, we provide tailored solutions.
- **Future-Ready Innovation:** Anticipating and meeting the challenges of HVAC industry evolution.

Alpha CNC Group Pty Ltd

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You Tube



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Our website

