







NIMAC GROUP

- 1977 **NIKOLAIDIS MACHINES.** Firm's foundation by Anestis Nikolaidis as a beam saw manufacturing industry.
- 2000 **Exports to the international market.** Constant presence in the largest exhibitions globally.
- 2008 **New state-of-the-art factory** 4.000m² in Kavalari, Thessaloniki.
- 2011 NIMAC GROUP. The new international trademark. High end manufacturing certified with ISO 9001. Production of wood working machines "made in NIMAC" well established in the international stage.
- 2016 **NIMAC CNC Laser**. Manufacturing of Laser engraving and cutting CNC machines.
- 2017 **NIMAC Robotics.** Developing of the Robotics and Automation department.















2018 The export rate reaches **90% of the total production** with representation in 5 continents.

- 2019 Participation for the fifth time in a row in **Ligna** (Germany), world's most famous woodworking exhibition. Exports to North Europe.
- 2020 **Introduction of EtheCAT technology.**State-of-the-art technology in all the electronic and control elements of the machines.
- 2021 **New investments** made in CNC machines to enhance and improve the quality of manufacturing.
- 2022 **Net metering** and investment in **Green Energy**. Installation of solar panels to move the factory forward energy autonomy.











New generation's beam saws by **NIMAC GROUP**





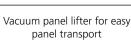
Robust and self-levelling grippers ensure that the panels are firmly locked in place, and allow for the full expulsion of sectioned stacks from the cutting line. The pusher travels through precision pinions and racks. Maximum accuracy thanks to double measuring system: magnetic encoder and servomotor.





The perfectly linear movement of the Saw Carriage is achieved through a rack and pinion system and is driven by a brush-less servomotor.







Front side loading platform



ATLAS 1 0 0 T

Industrial beam saw with automatic back loading platform



Pneumatic mechanism for the safe separation of panels from the stack.

Maximize the quantity of the cutting panels by one operator



| Blade projection | 105mm |
|--------------------|------------------------|
| Cutting length | 3200mm, 3800mm, 4400mm |
| Saw carriage speed | 5-130m/min |
| Main motor | 10-15-20Hp |



ALIGNERS

Two aligning devices providing perfect panel's parallelism.



Heavy Duty lifting table platform: In standalone frame to avoid vibrations on machine's stability. Moving on 4 large trapezoidal screws. Maximum lifting capacity 600mm.



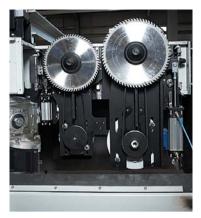






High expectations based on highest quality components

- EtherCat technology: The leading industrial protocol for real time communication of all axes, minimization of idle times and maximum accuracy. Reduced wiring, easy maintenance and zero problems in electrical parts.
- Robotic cables. Servo drives on saw carriage and pusher axis.
- Powerful controller TPA including the most advanced software with 3D real time graphic simulation with messages for the operator.
- Cutting Optimizer software.
- UPS for PC protection.
- Saw Carriage runs on rack pinion system for precise and hi-speed movement.
- Servomotor in standard configuration.
- LED lights: operation-color visualization according the machine's condition.
 Mounted on machine's frame.
- Robust construction and hi-quality linear shafts provide stability and accuracy on cutting line.
- Modern pusher controlled by servo motor.
 Transmission on rack-pinion and sliding on round linear guide. Maximum accuracy thanks to double measuring system: servo motor and magnetic encoder. Pusher's backward speed 50m/min.
- Supporting aluminium bars with rubber rollers for smooth panel sliding without damages.
- Pressure beam operation according to panel's thickness.
- Efficient aspiration tubes on 4 points.
- Spraying system for acrylic panels (optional).
- Saw-blade rpm control by inverter (optional).
- Blade projection by servo motor (optional).



Sliding on round linear shafts with rackpinion transmission



Depth grooving regulation by Sikos. Scoring regulation(left-right) from outside kit. By Sikos (optional electronic regulation with servo by PC).



Practical and reliable blade change system (easy change) by using only 1 key.



Automatic Side Aligner The side aligner runs on prismatic guides and ensures precision on cross-way cuts. Powerful pusher for panel movement. The pusher travels through precision pinions and racks. Maximum accuracy thanks to double measuring system: magnetic encoder and servomotor.



Grooving system on automatic sequence.



Automatic blade projection (2 pos) according panel's thickness



Cut-out.















Easy use by powerful software



- Windows 10 and 3d visual program on real time.
- OPTICUT top optimizing program.
- High analysis monitor for easy use.

 TFC (Tension Free Cut) management allows additional grooving and cuts to be made at the longitudinal cuts, as to eliminate the banana effect in the longitudinal cuts present in the cutting pattern. Smart cut: bigger strips cutting capacity thanks to smart software-production increase.



- Easy use software with advanced operations
- Graphical simulator easy programming even on complicated cutting maps
- 3D visualization on real time that shows to used the panel.



- Production report about cutting measures, PVC edge banding and working time
- OPTICUT LITE.
 powerful optimization provide higher production on min time.

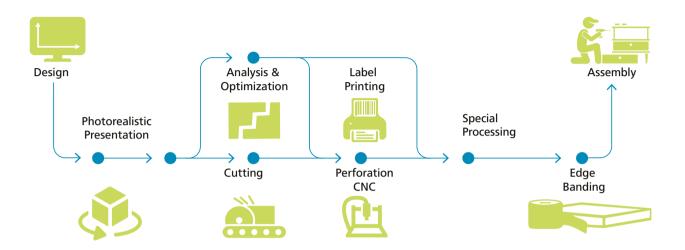


- Error checking menu provide full information about the machine's condition. And ensures the fastest problem's solution
- Connection with external furniture production software and optimizer software's with cost analysis and storage control.



COMPLETE SOFTWARE SOLUTIONS

From design to final wood working operation on min time



Design

Full parametrical design. Powerful box processor and large library.

Rendering

Impressive photorealistic presentations.

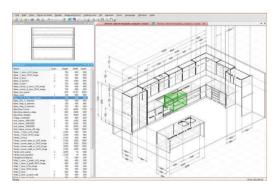
Analysis & Optimization

Large number of automatic reports including list of materials, invoices, orders, lists and nesting.

Production

Post processor for automatic execution on beam saws Nimac and to any cnc router brand.

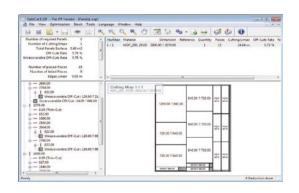
optional software



FURNITURE DESIGN SOFTWARE

Interactive design and construction software cabinets, based on a strong methodological idea. Automatic management of all details assembly and construction.

Accurate cutting lists. Export of executions file (post processor) for CNC machines.



OPTICUT PRO PP: CUTTING OPTIMIZATION SOFTWARE, CUTTING / PVC COSTING AND WAREHOUSE

Based on a powerful algorithm that calculates different sheets, materials and cutting methods. It has water calculation, PVC, leaf spinning, parametric labels and warehouse management. Impressive performance: Sorts cutting lists to the most efficient layouts in seconds, saving time and money.

| | TECHNICAL DATA | | | |
|--|------------------------|--------|-----------|--------|
| | Cutting length | 3200mm | 3800mm | 4400mm |
| | Pusher's stroke | 3200mm | 3800mm | 4400mm |
| | Blade projection | | 105mm | |
| | Main saw diameter | | 355mm | |
| | Scoring saw diameter | | 160mm | |
| | Main motor power | | 10Hp | |
| | Scoring saw power | | 2Hp | |
| | Saw carriage speed | 0- | -130m/min | |
| | Pusher's travel speed | C |)-50m/min | |
| | Automatic side aligner | 50 | 0-1100mm | |

Automatic blade projection (2 pneumatic positions) according panel's thickness Grippers quantity (standard) 5 7 9

Magnetic tape for pusher's measurement (non-contact system). Maximum accuracy.

Slotted pressure beam. The panels are always gripped up to the last cut

Scoring unit axial and vertical micrometric adjustment

New 3D software including optimization and automatic panel measurement $% \left(1\right) =\left(1\right) \left(1\right) \left($

Quick blade change system

Advanced 4 axis TPA controller

PC with Windows SSD Hard Disc.

Optimization software Opticut lite (Max. 100 pieces)

Grooving system

Cut Out

CE safety rules. Rear safety fence and hands protection curtain.

Teleservice through internet (free of charge during warranty period)

Electrical panel With EtherCat technology

OPTIONAL EQUIPEMENT

Air flotation tables 1300x500mm / 2000x600mm

Air flotation on main machine's frame

Automatic pressure beam according panel's height (pneumatic positions)

Main motor 15Hp or 20Hp

Movable second and third table

Extra grippers

Air-condition unit on electrical cabinet

Label printer and barcode software

Laser indicator on cutting line

UPS for PC protection

Movable box with Start / Stop button.

Practical solution when large panels are on front tables

Servomotors for automatic blades projection instead of pneumatic system

Servomotor for scoring vertical and axial regulation

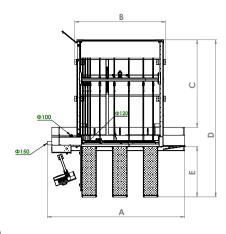
Opticut PRO: Office optimizer full version, pvc calculation, stock and cost

analysis, unlimited pieces and panels to optimize Cabinet Design Software – Complete production solution

from Design to Machining in few minutes

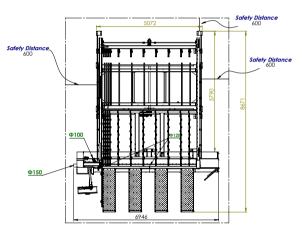
Side loading platform

Machine preparation for storage systems



ATLAS 100

| USEFUL CUTS | Α | В | С | D | E |
|-------------|------|------|------|-----------|-----------|
| 3200x3200 | 5600 | 3718 | 3610 | 5640/6340 | 1300/2000 |
| 3800x3800 | 6200 | 4218 | 4460 | 6360/7060 | 1300/2000 |
| 4300x4300 | 6800 | 4818 | 5060 | 6860/7600 | 1300/2000 |



ATLAS 100T

USEFUL CUTS

4400x4400

research | technology | precision | quality | service

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms





FACTORY - SHOWROOM

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