

QUOTATION

AES SUPER NOVA 1632 5' X 10' CNC ROUTER



SNX

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TECHNICAL FEATURES

SUPER NOVA 1632 – 5' x 10' CNC ROUTER

MACHINE BASE FRAME

The heavy wall structural steel frame provides a rigid and stable machining platform for wood, plastic, aluminum, phenolic and similar materials.

Before machining, the frame components are stress relieved. A high-precision five-sided vertical machining center is used to ensure parallelism and perpendicularity.

TABLE/WORK SURFACE

The work surface is a precision-machined phenolic high-flow vacuum table mounted to the steel frame. Our universal grid pattern gives you the flexibility to work with vacuum cups. The modular design allows for quick changeover for a variety of material sizes. We provide pop-up pins in the "X" and "Y" for precise work referencing.

Worktable Dimensions: 125" x 62"

AXIS CONFIGURATION

The machine is configured with a traveling gantry, stationary table design.

X-axis (gantry) motion is accomplished via a precision helical rack and pinion mounted to the frame. The pinion is driven by two synchronized digital servo motors.

Y-axis (carriage) motion is accomplished via a precision helical rack and pinion mounted to the frame. The pinion is driven by a digital servo motor.

Z-axis motion is accomplished via a pre-loaded precision ball screws and powered by a digital servo motor.

Axis Speeds: "X" and "Y" axis – 2800ipm (70m/min) | "Z" axis – 800ipm (20m/min)

AUTOMATIC LUBRICATION SYSTEM

Our automatic lubrication system services the rack and pinion, ball screw, and linear guideways.

CNC CONTROL AND OPERATING SYSTEM

A professional serial ISAC Windows-based operating system controls all machine functions. An industrial computer ensures trouble-free operation under the most challenging conditions.

ISAC CONTROL UNIT FEATURES

- Windows based operating system
- 19.5 " TFT color LCD Display
- Integrated Ethernet port USB port
- Internet-ready for trouble shooting and updates.
- User-friendly easy interface
- Remote handheld control unit
- Seven languages supported.
- Part simulation



You can control all functions from a single screen with an easy-to-use and high-performance interface. Before cycling the machine, operators can see a complete simulation of the operations. Work lists can be easily created and modified.

HIGH PERFORMANCE HSD 12HP SPINDLE



Spindle Specifications:

- 12Hp HSD HSK 63F spindle
- Programmable RPM's from 1,000 – 24,000 rpm
- Automatic 6-position dust shroud for optimal collection
- Automatic tool touch-off probe
- "Z" axis performance
- 7.87" (200mm) programmable "Z" stroke

AUTOMATIC TOOL CHANGER



- 8-Capacity rotary tool changer
- 4.72" (120mm) maximum tool diameter
- 165mm maximum tool diameter (skip pocket)
- Maximum tool length 150mm
- Max 16lbs (7kg) tool capacity (per slot)

BORING BLOCK



Multi-Spindle boring block is equipped with (9) six independent spindles

- 5 vertical spindles in the "X" axis
- 4 vertical spindles in the "Y" axis
- 6,000rpm maximum spindle rotation
- 32mm spindle-to-spindle centers
- Tool connection – 10mm

VACUUM PUMP

The Vacuboot system is a patented vacuum system produced by standard AES. The system provides a stronger grip by managing the vacuum zones with smart optimization logic. The system provides up to 10 times stronger grip compared to standard vacuum installations.



- 2x250 m³ Eurovac vacuum pumps
- Dry Type Vacuum Pump - 8.9 HP
- VacuBoost, Smart Vacuum Optimization
- Eight independently controlled vacuum areas
- Air Cooling Unit
- Frequency 50 - 60 Hz.
- Speed 1430/1720
- Required power 3.30 / 4.40 kW

SAFETY LIGHTS

The light barrier prevents unauthorized access to the machine's working area by stopping the machine.

Electrical, Air and Dust Extraction Requirements

Electrical - 220V | 3-Phase | 63A.

Air – 100psi | 20cfm

Dust – 6" outlet | 1800cfm.

30kva MULTITAP TRANSFORMER

Input / output conversion can be made between the CNC Router and 208, 220, 230, 240, 380, 400, 440, 480VAC connections.

INSTALLATION | COMMISSIONING \ ONSITE TRAINING

A Factory Trained and Certified Technician will install the machine and complete pre-production testing. The technician will provide up to three (3) days of onsite, on-machine process implementation assistance, including daily maintenance instruction and cutting of sample parts using tooling and part programs provided by the customer.



ALPHACAM

Core includes the ability for CAD importing, toolpath generation, simulation, report generation, and more. Start with Alphacam Core for your essential requirements, and add multipliers to build the CAM solution that meets the unique needs of your business.

Key Features

- 2D - 3D machining (3-Axis)
- 3D Engraving (3-Axis)
- Wire EDM (2-Axis)
- Import CAD files
- Parametric sketching
- Basic Multidrill functionality (Vertical Drill)
- 2D CAD creation and editing
- Utilities to handle STL mesh files
- Full machining simulation
- Common line removal for CAD repair (prepare for manufacture)
- Standard reporting functionalities, including labels



ALPHACAM

Nested manufacturing is made easy using Alphacam's xNesting multiplier. Parts can be selected directly from the screen or as a kit; their orientation fixed, if grain direction needs to be maintained or rotated to any angle. Nesting supports tool lead in/out, support tags for small parts, avoiding loss of table vacuum and multiple depth cuts, if an onion skin is required.

Key Features

- Bridge nesting for minimizing lead in, lead out (time saving)
- Common cut removal
- Reverse side nesting
- Manual nesting for more control
- Offcut management (save offcut to sheet database)
- Suppressed drawing of duplicate sheets (quantities rather than repetition)
- Minimize toolchanges

Super Nova Executive Pricing Summary:



AES Super Nova series 5' x 10' CNC Router with the following:

- ISAC Control – Windows based operating system
 - 21.5" TFT color LCD display
 - Integrated Ethernet port
 - USB port
- 62" x 125" (1600mm x 3200mm) phenolic high-flow matrix grid table
 - "X" and "Y" pop-up reference pins
- Fully automatic labeling and sheet alignment
- Lift station
- Automatic sheet loader
- Sweep arm for unloading panels and cleaning spoil board
- Unloading conveyor with sensors
- 70 meters/minute (2800ipm)
- 12Hp HSD HSK spindle
- On-the-fly 8-capacity rotary TC
- Automatic tool touch-off probe
- 9-Vertical spindle boring block
- Handheld remote control
- VacuBoost, Smart Vacuum Optimization
- Two Eurovac 250m³/h vacuum pump
- Eight vacuum areas
- Safety light barrier
- Multitap transformer
- Automatic lubrication
- AlphaCAM Core | AlphaCAM Nest | One-post processor
- 8 tool holders | 8 collets
- Machine weight = 9,600lbs (approx.)
- FOB – Charlotte, NC
- Onsite installation and training
- One-year parts and labor warranty

One AES Super Nova with the above specifications.....\$159,900.00

Freight:

FOB – AES, Charlotte, NC USA

Installation and Training:

Included in price (see above)

Delivery:

3-5 months from date of downpayment subject to prior sales

Terms:

30% downpayment with order | 60% prior to shipment | 10% net 15 days after installation

Note: This quotation does not include state or local sales tax and is only good for 30 days. If your company is not tax exempt, state or local tax will be applied to your invoice as required. All orders are subject to credit approval and AES's standard terms and conditions (read and sign the last two pages of this document)

Warranty:

12 months from date of installation – see below.

General Sales Conditions

1. General Provisions

These General Sales Conditions contain provisions between AES Elektronik Makina Sanayi ve Ticaret A.Ş. (hereinafter referred to as "AES Group") and any company, institution, legal entity, or person (hereinafter referred to as the "Buyer") with regard to the sale of products and services.

The General Sales Conditions regulates the provisions regarding the Sales procedures between AES Group and the Buyer without the need for a separate contract. The Sales Conditions without written approval by AES Group do not bind AES Group in any way.

2. Subject

These General Sales Conditions contain provisions between AES Elektronik Makina Sanayi ve Ticaret A.Ş. (hereinafter referred to as "AES Group") and any company, institution, legal entity, or person (hereinafter referred to as the "Buyer") with regard to the sale of products and services. The General Sales Conditions regulates the provisions regarding the Sales procedures between AES Group and the Buyer without the need for a separate contract. The Sales Conditions without written approval by AES Group do not bind AES Group in any way.

3. Condition and Features of the Sold Product

Details about the technical features and status of the product are clearly stated in the Sales Offer, which is subject to these General Sales Conditions. The validity of the aforementioned offer is 30 days unless otherwise specified. Whether the same conditions are valid at the end of the offer's validity period depends on the AES Group's written approval.

Documents, contracts, notifications of changes, etc. issued in addition to the General Sales Conditions as attachments are valid only with written approval from our side.

4. Delivery and Delay Conditions

Unless otherwise stated, all sales are considered Factory Delivery (EXW - EX-WORKS). The most up-to-date INCOTERMS provisions apply in delivery within the framework of International Trade rules. If the AES Group in written form notifies the Buyer that the product/products are ready, the delivery period is deemed to have been completed. All shipping, customs, insurance, etc. costs after delivery are the responsibility of the Buyer.

AES Group cannot be held responsible for the delays caused by the following circumstances; if the buyer requires changes of the product, does not provide the required technical data, does not fulfill the delivery conditions, etc. or the delays and the disruptions in the delivery period caused by the shipping company of the Buyer.

After the AES Group notifies the Buyer that the product/products are ready for delivery, the consignment must be made by the Buyer within 30 working days at the latest. AES Group reserves the right to change the delivery dates of the machines not consigned within the aforementioned period.

In case of force majeure (natural disaster, war, terrorism, riot, legislative provisions, seizure or strike, lockout, significant malfunction in production and operational facilities, social epidemic, etc.), the delivery time may be delayed until the reason in question disappears. Unless otherwise stated, the responsibility passes to the Buyer after the products are loaded on the shipping vehicle of the Buyer. AES Group is responsible for loading the aforementioned products to the relevant transportation vehicle. If the transportation vehicle is not suitable for loading during the consignment procedure, AES Group may reject loading for the benefit of the Buyer. This situation is reported to the shipping company and the Buyer. The consignment process is carried out in line with the decision of the Buyer. However, without the approval of AES Group, during this period AES Group cannot be held responsible for delays and damages that may occur.

The delivery of the product/products can be made after payment of the sales price agreed between AES Group and the Buyer.

5. Price and Payment Method

The sales price of the product/products and services is as stated in the offer to which these General Sales Conditions are bound.

Payments are to be made in accordance with the Payment Schedule sent together with the General Sales Agreement. The accepted payment method and terms cannot be changed later by the Buyer. AES Group reserves the right to increase the sales price resulting from changes in the properties of the product after the approval 2 of the General Sales Conditions and the Sales Offer. The payment dates agreed in the contract are final and there is no need for any further notice in order for AES Group to exercise its rights arising from renunciation, interest, contract, law, and other legal regulations.

The Central Bank of Turkey Effective Buying Rate billing day rates are taken for the conversion of foreign currency to the local currency that is subject to payment. For the payments to be made with Leasing; AES Group reserves the right to demand an advance payment not exceeding 15% of the sales price as an advance payment after the approval of the sale.

For the payments to be made with Leasing; in case the Buyer's Leasing agency cancels the leasing or makes any changes, the Buyer's obligation to pay the price of the products remains.

6. Installation and Training Conditions

The assembly and installation of the product/products that are the subject of these General Sales Conditions belong to AES Group. The aforementioned assembly and installation activities must be carried out by AES Group or third parties authorized by AES Group. The responsibility of the Buyer is to provide the conditions at the Buyer's facilities, stipulated in the Installation Specification for the operation of the product/products.

The Buyer is responsible to provide necessary cranes, forklifts, etc. required for unloading the product/products from the transport vehicle. The conditions from the Installation Specification sent to the Buyer before the installation by AES Group must be fulfilled.

Whether it is determined, after the declaration made by the Buyer, that the required conditions are not fulfilled, AES Group sends a written notification to the Buyer and request to complete the deficiencies within 15 days. If the deficiencies are not completed within 15 days, the assembly and training, which is to be given free of charge, count as completed.

When the assembly process is completed an AES Group technician or a third party technician authorized by AES Group, provides training on the use of the product and the program used with the product. Unless otherwise stated, assembly and training of product/products are carried out for 3 days. The date of assembly and installation will be determined in writing agreed upon between AES Group and the Buyer. Transportation and accommodation expenses of the personnel who will provide assembly and training are the responsibility of the Buyer. After the assembly and training are completed, the submission form is signed by the Buyer, indicating that the product is delivered thorough and complete.

7. Warranty Conditions

Unless otherwise stated, the product/products are covered by a 12-month warranty. The warranty period starts from the date on the submission form signed after the assembly and training of the product/products. AES Group reserves the right to initiate the warranty period in cases where installation and training exceed 12 months as of the date of the Invoice. In order for the warranty to be valid, the assembly of the product/products must be done by AES Group technicians or by third parties approved by AES Group. Damages determined to be caused by the insufficiency of the requirements notified to the Buyer with the Installation Specification are not covered by the warranty. Damages determined to be caused by the use of third party software not provided by AES Group are not covered by the warranty.

8. Copyright and Privacy Terms

All Intellectual Property Rights regarding the aforementioned product(s) belong to the AES Group. It is not possible to transfer the rights to the Buyer with the sale. The Buyer undertakes that it will not act otherwise with regard to the exercise of Intellectual Property rights. During the purchase process of the product/products subject to these General Sales Conditions, the Buyer undertakes that it will not share documents such as, the Shared Offer, technical drawing, user manual, etc. with third parties if not previously authorized by AES Group.

The Buyer expresses consent to the use of the information shared in the scope of this General Sales Conditions, following the Law on the Protection of Personal Data.

9. Export Control and Transfer of Contract

The Buyer agrees to comply with all legal obligations regarding the transfer of product and technology. AES Group cannot be held responsible if the buyer exports the product/products to a different region without the permission of AES Group and in cases requiring special permission by the competent authorities.

Without the written consent of AES Group, these General Sales Conditions agreed between AES Group and the Buyer cannot be transferred to third parties. In case of transfer with written permission, the third party is deemed to have accepted these General Sales Conditions.

10. Contract Cancellation and the Right of Withdrawal

Non-existent and unforeseen situations at the time the contract was signed, developed beyond the control of the parties, and made it impossible for one or both of the parties to fulfill their obligations and responsibilities imposed by the contract partially or completely or to fulfill them on time, will be considered as force majeure (natural disaster, war, terror, uprising, legislative provisions, seizure or strike, lockout, significant malfunction in production and operational facilities, social epidemic, ...). The Buyer as the party having been directly involved in the force majeure shall notify the other party immediately in written form and with its justification. Only the existence of force majeure, will not affect the liability of the parties. The extend of the force majeure effect on the parties will be determined according to objective rules. During the continuance of the force majeure, the parties will not have any liability regarding the inability to fulfill their responsibilities. If the force majeure event continues for 30 (thirty days), each of the parties has the unilateral right of cancellation. In case of cancellations made without any valid reason, except for the above-mentioned cases, up to 15% of the contract price may be collected from the company as a termination fee. Bursa Courts and Enforcement Offices are authorized to resolve any disputes that may arise from the implementation of this contract and its annexes. AES Group may refrain from producing/delivering the goods by using the right to withdraw from the contract in case the price agreed upon by the payment terms in the contract is not paid on the payment date. In this case, the costs already paid by the Buyer will not be refunded to cover the damages of AES Group. The Buyer has to compensate for other damages incurred by AES Group. If the AES Group refrains from receiving the goods within the delivery time stipulated by the production, the product subject to production can be sold to another buyer.

In case of disputes or issues arising from any situation not specified in this document of General Sales Conditions, the Turkish Commercial Code, Code of Obligations, and relevant laws and regulations are valid. The parties agree and undertake that they will mutually carry out the negotiation method in good faith following the aforementioned provisions. Any change in these General Sales Conditions shall not prejudice other terms. After the mutual signature date, the parties agree to make the necessary commitments to fulfill the relevant terms. Any changes should be made in writing form under possible conditions.

Information of the authorized person who signed this document on behalf of the AES Group and the Buyer;

Offered by:

Accepted by::

Craig Sexton
SNX Technologies

Darren Rogness
DakBUILT
Signature Date: ____/____/____