

# DIGITAL **MODULAR** CUTTING SYSTEMS



# RANDIX



**60** YEARS  
STRONG



# RANDIX



**Every demanding industrial project deserves the best, customized and dependable tools.** At Zemat Technology Group we are passionate about creating innovative state-of-art solutions designed to increase productivity, sustainability, time saving, while decreasing costs and waste.

The concept of **RandiX modular cutting solutions** was developed by the best **European and American designers and engineers** over 60 years of industry wide experience in a constant technology improvement. The on-time delivery, reliable and proven technology, worldwide technical and sales support are the key elements to achieving the market success and satisfying even the most demanding industrial customers.

**Our mission:** to provide the most advanced Digital Modular Cutting Solution to the very demanding Global industrial sector.

**The Plug-and-Play Changeover System** for cutting tools is an innovative approach to turn the basic cutting table into the most sophisticated cutting machines utilizing all technologically feasible cutting and marking tools. Our machines offer full cutting flexibility for wide range of modern industrial fabrics, non-wovens, composites, honeycomb structural materials, rigid polymers and soft metals.

With **custom designed intuitive software** implementing multi-format IO platform, unsurpassed quality of special design tools and assemblies you get the perfect manufacturing solution creating the competitive edge your organization needs and deserves.

*RandiX is an industrial brand of Cutting Machines manufactured by Zemat Technology Group.*

**[www.zemat.com](http://www.zemat.com)**





**MODULAR  
CUTTING EDGE  
TECHNOLOGY**

*for the most demanding GLOBAL INDUSTRIAL needs*



# Cutting Edge Technology for Global Industrial Needs



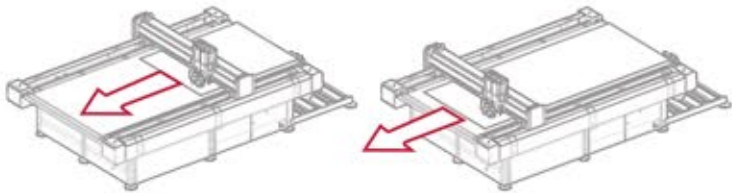
## FEATURES

- Customizable cutting table sizes
- Conveyor or static surface
- Universal modular head enables work with three tools simultaneously
- Precision rack-and-pinion motion system with state-of-the-art servo motors
- Optional automatic feeder
- In-house developed RandiX software with IO formats and nesting

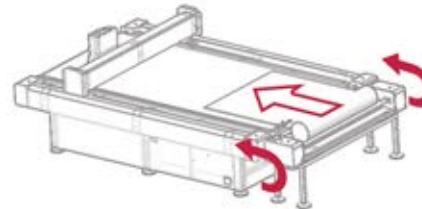
# RANDIX

**Multi-tool cutting:**

- blades
- milling
- laser cutting
- ultrasonic cutting
- marking



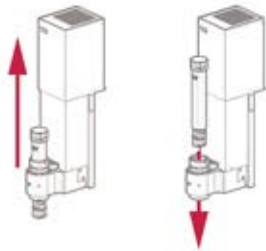
CONVEYOR TABLE  
AUTOMATIC LOADING



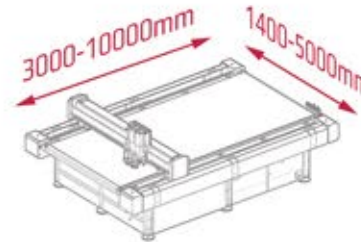
AUTOMATIC FEEDER  
WITH EDGE CONTROL



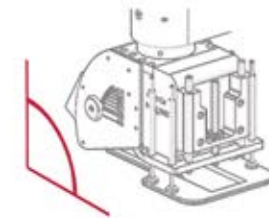
MULTI-PLATFORM SOFTWARE,  
IO CONVERSION AND NESTING



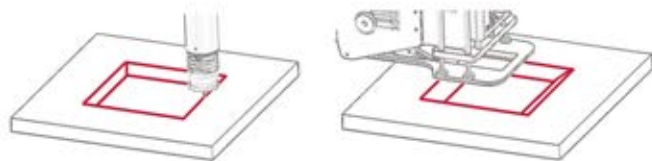
PLUG-AND-PLAY  
FAST TOOL CHANGE



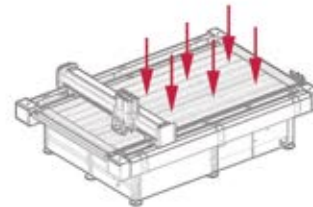
CUSTOMIZED  
TABLE SIZE



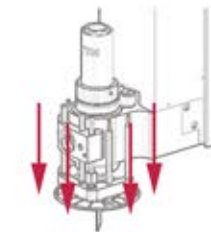
ANGULAR CUTTING FOR  
3D STRUCTURES / COMPOSITES



SINGLE SETTING  
MULTIFUNCTIONALITY



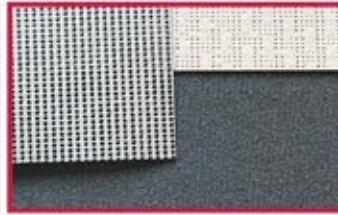
VACUUM TABLE WITH  
CUTTING ZONE CONTROL



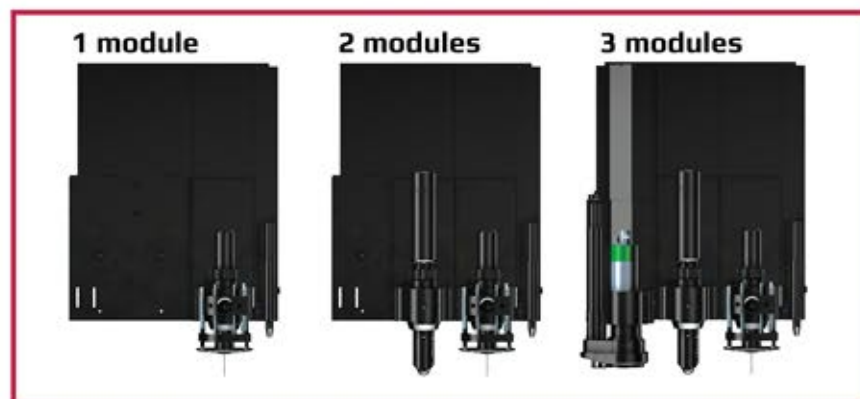
PRECISION CUT CONTROL  
PRESSURE FOOT



Cutting flexibility for wide range of industrial fabrics, non-wovens,  
composites, honeycomb structural materials, rigid polymers and soft metals.



**MODULAR  
CUTTING  
SOLUTIONS**



## Universal modular tool header



# RANDIX



## Tailor made and fully configurable

- Custom cutting table size
- Cutting table surface: conveyor or static
- Custom cutting tools
- Feeder: automatic or manual
- State-of-the-art software and nesting solutions
- Velocity, speed and step precision control
- Fully upgradable: the basic configuration of the machine can be upgraded with new tools in the future and adopted to the new projects

## Available tools and modules

### Modules

- Standard** - Holder for most RX tools with Z axis control (tool up and down) and C axis (turn)
- Pen** - Support for the marking tool (RTP) pneumatically driven with a positioning laser pointer (LP) on the bottom. This module is standard on all RandiX machines
- Laser** - Holder for the laser cutting tool (RTL)
- Router** - Holder for router tool (RTRT) and router sanding (RTRS) with Z axis control (tool raising and lowering), pressure foot with brush and suction tube for the milling/polishing residues
- Ultrasonic** - Holder for ultrasonic tools (RTU and RTUC)

### Tools

- |                                      |                                        |
|--------------------------------------|----------------------------------------|
| RTATN - Angular tangential pneumatic | RTR - Rotary                           |
| RTC - Creaser                        | RTRT - Router                          |
| RTCC - Crush cutting                 | RTRN - Router pneumatic                |
| RTD - Drill                          | RTRS - Router sanding                  |
| RTDR - Driving rotary                | RTT - Tangential cutting               |
| RTDRN - Driving rotary pneumatic     | RTTD - Tangential oscilating cutter    |
| RTRE - Engraving                     | RTTN - Tangential oscilating pneumatic |
| RTL - Laser                          | RTU - Ultrasonic                       |
| RTLTP - Laser pointer                | RTUC - Ultrasonic oscilating cutter    |
| RTP - Pen                            | RTVC - V-cut                           |
| RTDP - Punch                         | RTV - Vinyl and laminate cutter        |

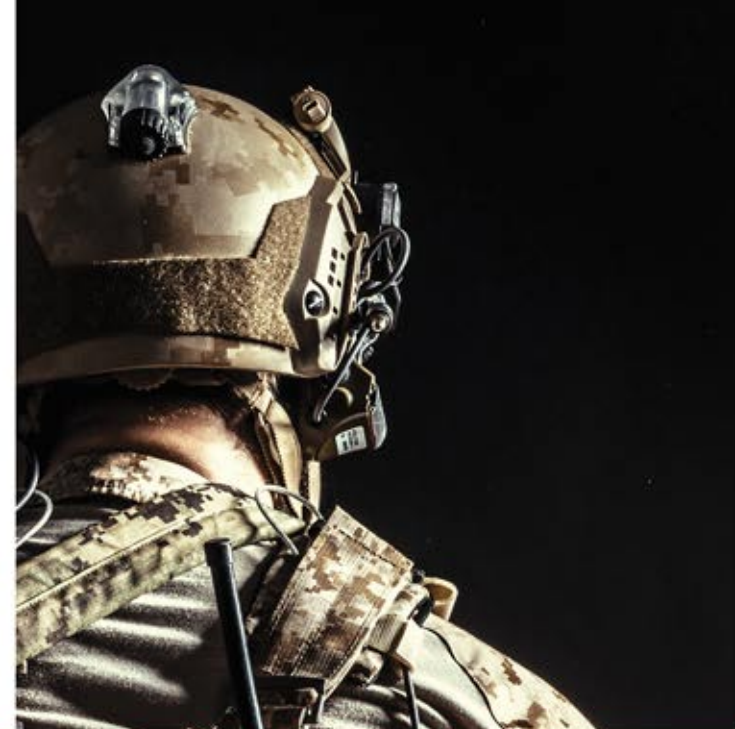




**Aeronautic**



**Automotive**



**Military**

***CUTTING EDGE TECHNOLOGY***  
***FOR CUTTING EDGE INDUSTRIES***





**Architecture**



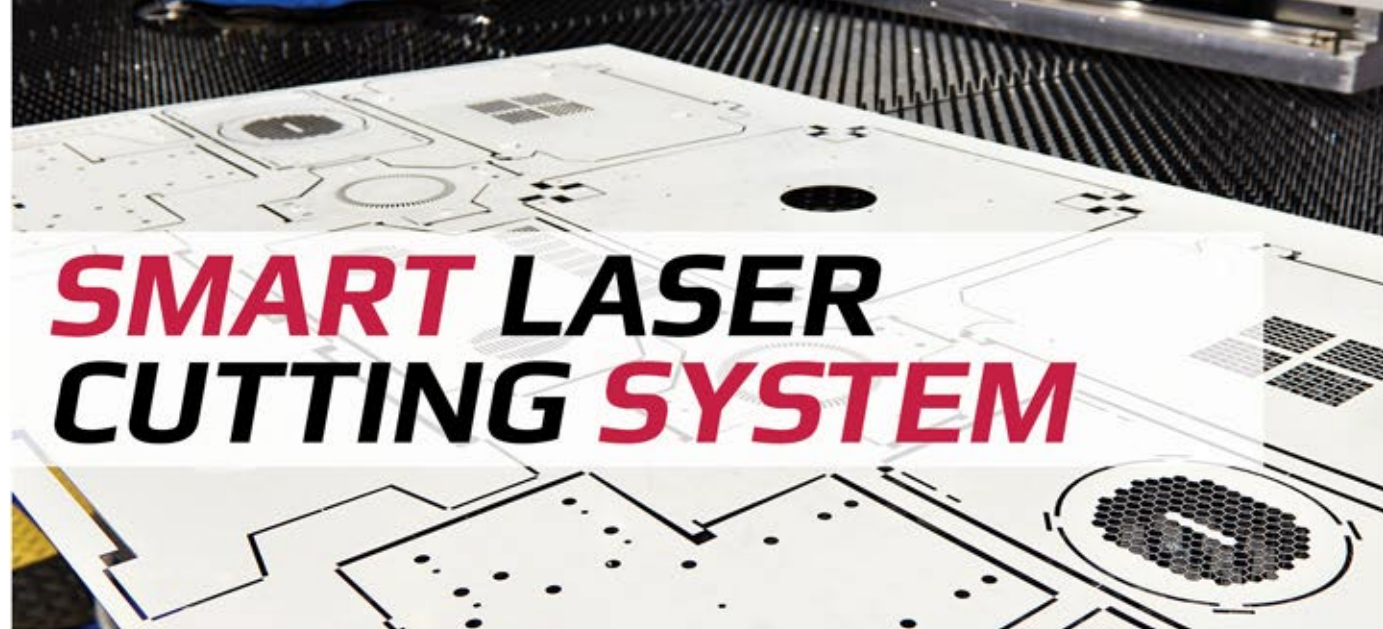
**Marine**



**Filtration**







# **SMART LASER CUTTING SYSTEM**



**Customizable CO2 Class 4 LASER  
up to 650W with adjustable focal length  
and innovative laser beam attenuation**

## **FEATURES:**

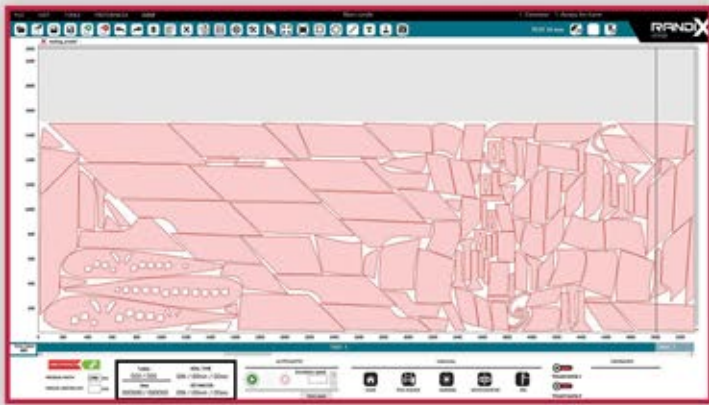
- Modular concept system
- Perfect edge cutting
- High Resolution
- Accurate power tuning
- Integrated controller and robust interface
- Complete Fume Extraction System
- Z-axis position control of the laser head and extraction system
- Easy-To-Clean lens system
- Easy laser configuration through RXS Software
- Complete cutting table configuration up to the customer needs
- Stainless-steel rod mesh conveyor set with toothed pulleys
- Closed loop water cooling system



# UNIQUE INTUITIVE SOFTWARE

## RXS

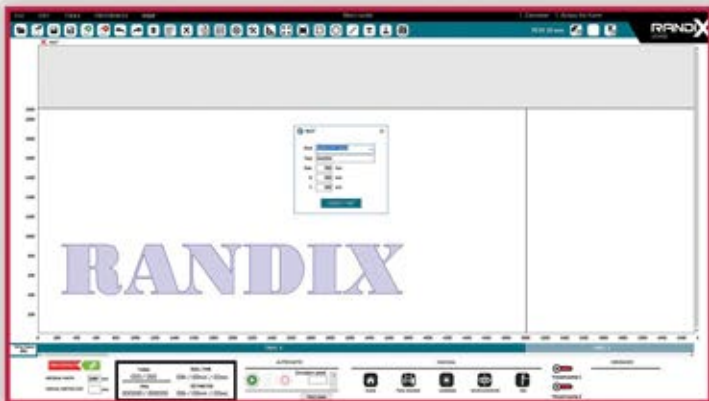
- Specific and proprietary RXS software for RandiX machines
- Easy to use and compatible with the standard drawing file formats: .dxf, .hpgl and .iso
- It can be configured with tools for all types of materials and cutting modes to provide the user with full control of every detail in order to achieve the best desired results
- Its simulation mode allows the user to create the files, set the parameters and visualize the equipment operation independently of the machine
- Generate simple figures and text
- Optional software modules:
  - + Automatic nesting
  - + TouchCAD, for the design of tensile structures, canvas, inflatables or sails



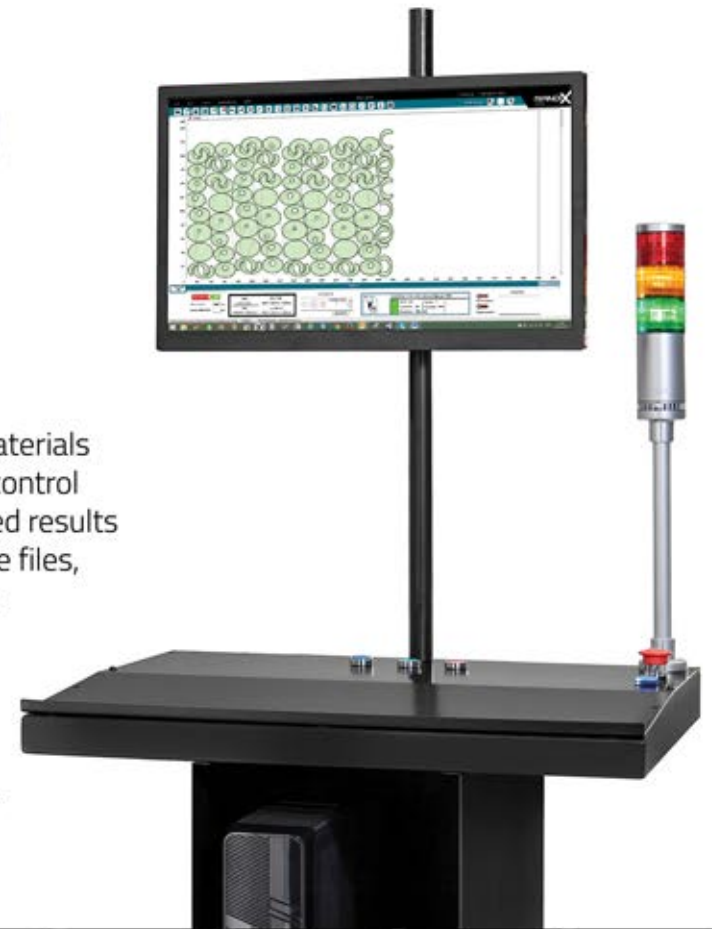
Nesting



Tools



Text







**Aeronautic**



**Aerostatic / Balloons**



**Automotive**



**Sun protection**



**Box prototyping**



**Architecture**



**Fashion clothing**



**Expo / Signage**



**Air / Water filtration**



**Composite materials**



**Graphics**



**Home textiles**



**Marine / Naval**



**Parachute / Paragliders**



**Packaging / Displays**



**Safety / Armor**



**Sports**



**Tarpaulins**



**Technical garments**



**Upholstery**

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**60 YEARS  
STRONG**

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