DIGITAL MODULAR CUTTING SYSTEMS

made in EU

RANDIX

MS MP

RANDIX

zemat® TECHNOLOGY GROUP

60 YEARS STRONG

RANDIX

zemat® TECHNOLOGY GROUP

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.
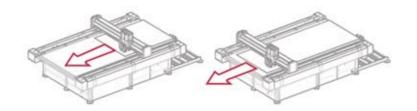
RandiX is an industrial brand of Cutting Machines manufactured by Zemat Technology Group.
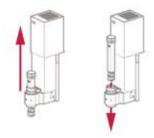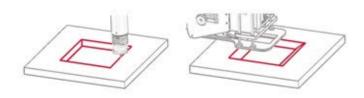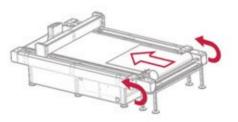
www.zemat.com

MODULAR
CUTTING EDGE
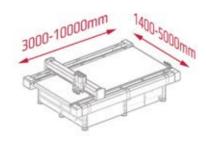# TECHNOLOGY

for the most demanding GLOBAL INDUSTRIAL needs

Cutting Edge Technology for Global Industrial Needs

FEATURES

- Customizable cuting 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

3000-10000mm
1400-5000mm

CUSTOMIZED
TABLE SIZE

ANGULAR CUTTING FOR
3D STRUCTURES / COMPOSITES
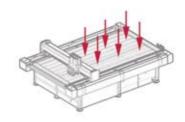
SINGLE SETTING
MULTIFUNCTIONALITY
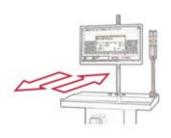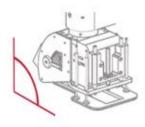
VACUUM TABLE WITH
CUTTING ZONE CONTROL

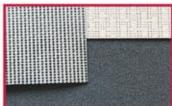PRECISION CUT CONTROL
PRESSURE FOOT

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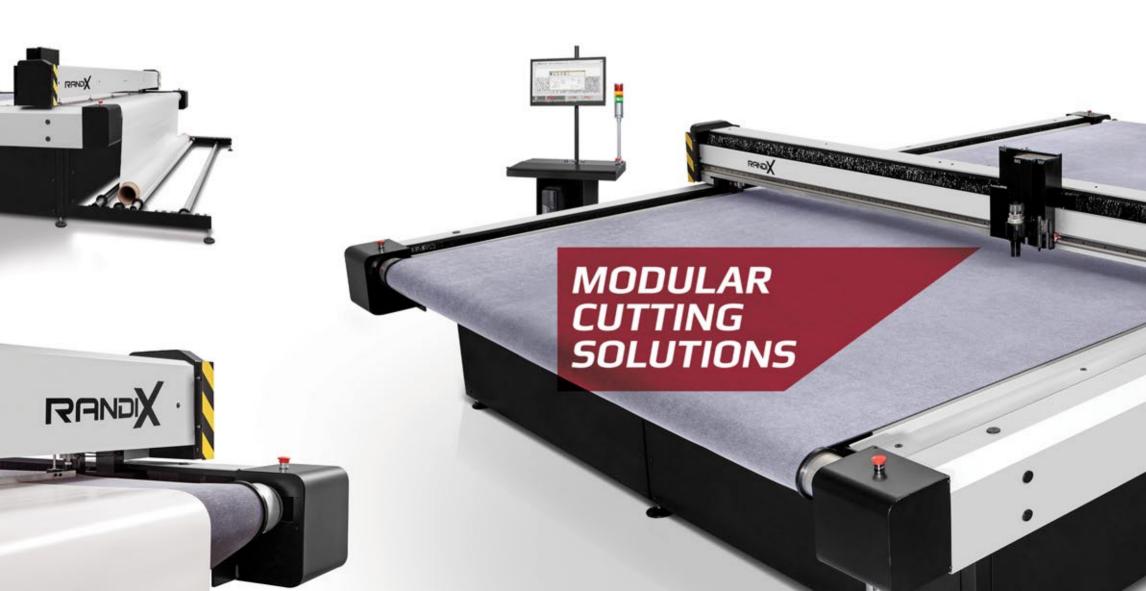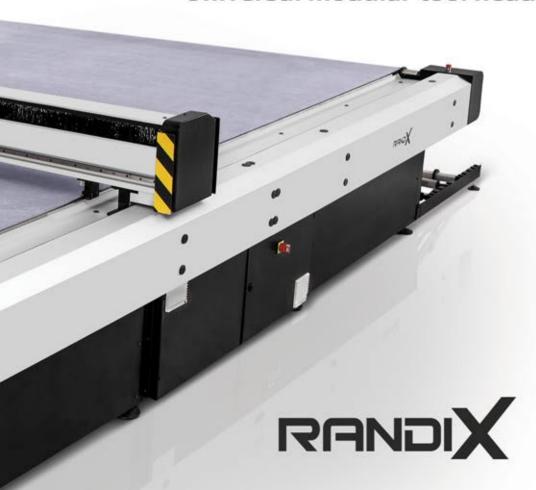
RANDX

MODULAR CUTTING SOLUTIONS

1 module   2 modules   3 modules

Universal modular tool header

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 an 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
RTLP - Laser pointer	**RTUC** - Ultrasonic oscilating cutter
RTP - Pen	**RTVC** - V-cut
RTDP - Punch	**RTV** - Vinyl and laminate cutter
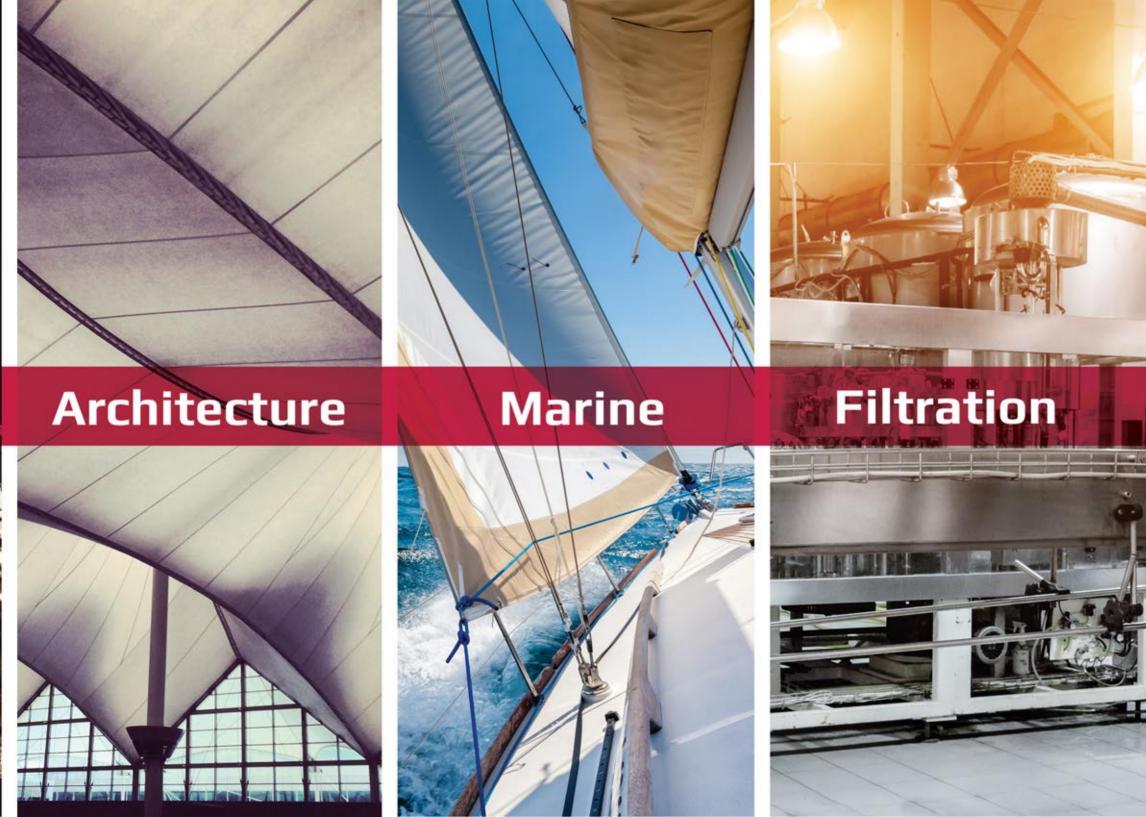
RANDIX

Aeronautic

Automotive

Military

CUTTING EDGE TECHNOLOGY
FOR CUTTING EDGE INDUSTRIES

Architecture

Marine

Filtration

RANDI X

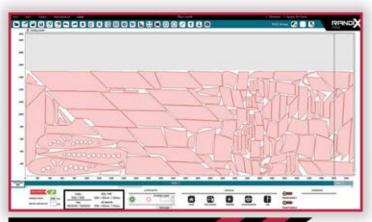## SMART LASER CUTTING SYSTEM

SR 101

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 trough RXS Software
- Complete cutting table configuration up to the customer needs
- Stainless-steel rod mesh conveyor set with toothed pulleys
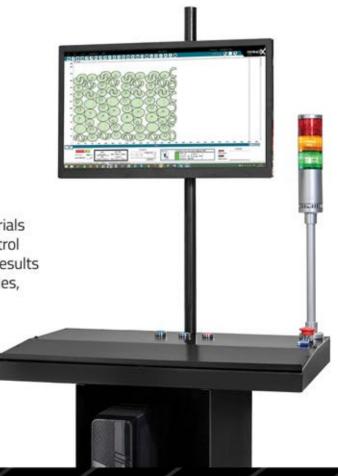- Closed loop water cooling system

Nesting

Tools

Text

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

Aeronautic

Aerostatic / Baloons

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