

# M-SERIES

HIGH-POWER MAGNETRON-BASED RF SYSTEMS



## Gain ultimate performance

ScandiNova's magnetron-based systems with unique solid-state technology have raised our customers' applications to new levels of reliability and precision.

Compact devices reduce the need for space, save costs and increase opportunities. Moreover, easy installation and reduced operational costs lower the overall cost of ownership.

Today our systems power cutting-edge radiotherapy systems and industry systems alike.

## COMPREHENSIVE RANGE

for all types of magnetrons

**ScandiNova offers a wide range of pulse modulators** for all types of high-power pulsed magnetrons on the market. The modulators provide unparalleled performance and a small size to meet system integrators' most critical packaging needs. Most models can be selected as either stand-alone or integrated versions.

Our dual energy models are used in application areas such as scanning and screening, where material discrimination is requested. Regardless of model, you enjoy state-of-the-art technology and ScandiNova's high-end control system.

**ScandiNova has the capability to offer** everything from a pure pulse modulator all the way to a complete optimized RF system. The integration of subsystems and components is made with the skills gained through our background in the accelerator industry.

### RELIABLE

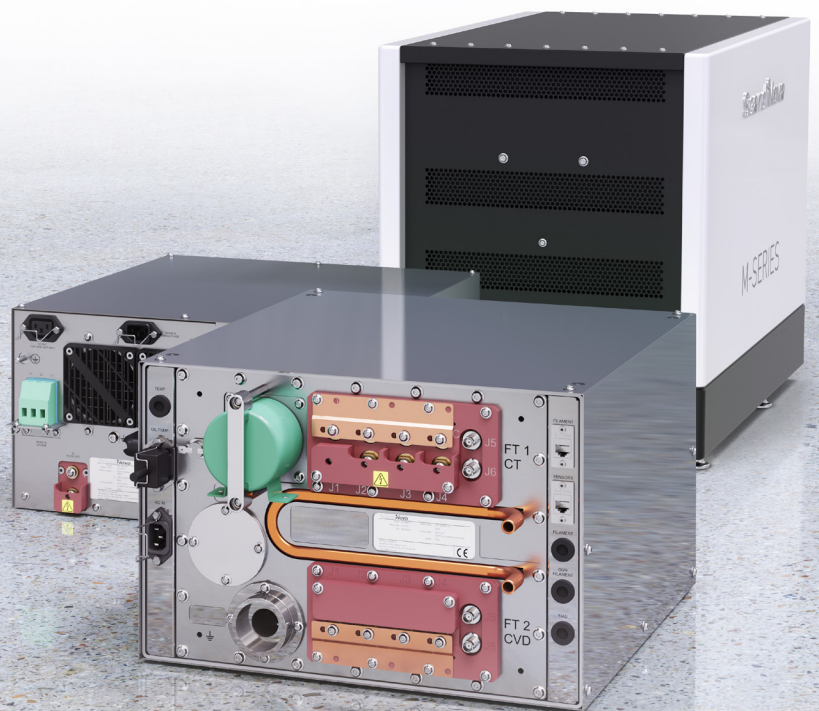
ScandiNova's solid-state technology provides the highest level of reliability and maximizes up time.

### COMPACT

The systems require about one third of the space and have about 30% higher efficiency than traditional systems.

### PRECISE

Unique split-core technology breakthroughs generate unrivalled pulse-to-pulse stability at ppm levels.



## EXPANDING HORIZONS IN SEVERAL APPLICATION AREAS



AREA  
SCIENCE



AREA  
MEDTECH



AREA  
INDUSTRY

**ScandiNova's magnetron-based systems** are used successfully in a variety of applications, all of which place high demands on compact, versatile products with high reliability. Our systems have contributed to innovative solutions in radiotherapy and various industrial applications such as cargo scanning, radar and non-destructive testing.



## PULSE CONTROL LEADS TO NEW POSSIBILITIES

ScandiNova's modern control system offers both a user-friendly interface and a wide range of different shape modifications for every pulse. Length, amplitude and frequency can be changed, giving end-users new possibilities and features not previously possible.

## SAFETY FIRST

The split-core concept has minimized the risks for personal and collateral damages. High voltage components are kept to a minimum and all are placed inside the oil tank. Each modulator has several protections against arcs to safeguard the magnetron.

By reducing the primary voltage from 30,000 V to 1000 V, ScandiNova systems can implement much better covers and protection, thereby eliminating the risk of electrical shocks.

### CONTACT

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**ScandiNova**  
Excellence in pulsed power