

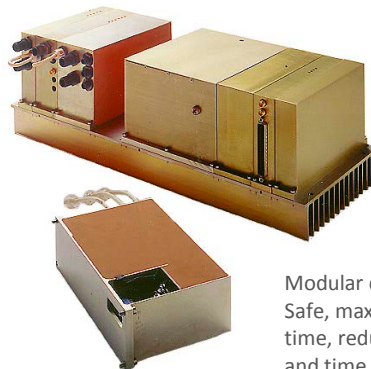


## MeV Systems, Proven and Built To Last

Our tailored linac systems and subsystems are the most advanced in the industry, specifically designed to match customer requirements in NDT applications. The product platforms incorporate ETM's military packaging experience for low temperature, high temperature, high voltage, shock and vibration, and enhance it with MeV radiation resistant materials. In addition, ETM linac systems are modularized for maximal operational up-time and rapid serviceability. In the past 40 years, ETM has fielded nearly 10,000 high-voltage subsystems in support of our customers' applications around the world.

## Modular Design

ETM's modular linac system design simplifies maintenance and minimizes any potential downtime. Easy module accessibility considerably improves MTTR and operational availability. High voltage modules are completely encapsulated and isolated from low voltage electronics, with enclosures at ground potential for safe operation.



Modular design:  
Safe, maximized up-time, reduced cost and time associated with maintenance

## Tailoring For Your Requirements

ETM will specifically tailor its linac products for any customer's particular NDT requirement, cost-effectively while maintaining excellent quality. We commit to giving our customers exactly what they need; optimal performance, packaging, and pricing in a linac system tailored specifically for customer's NDT application.

## Real-time dose/energy control

ETM's patent-pending design enables our customers to change dose and energy dynamically, during an image.

## Better Spectrum, Less Radiation

ETM linac systems are designed to provide narrower electron energy spectra than other industrial linacs. The system design allows ETM customers to obtain excellent images with lower total dose, and allows fine tuning of dose at a fixed repetition rate while maintaining energy.

## Lowest Cost of Ownership

ETM stands behind our products with a standard 12 month warranty, after which ETM's easy-to-service, low-cost modular design reduces service time, minimizes maintenance cost, and maximizes up-time.

## Service

Every ETM product is backed by 24-7 worldwide service:

1 (800) 883-4ETM North America  
+1 (510) 797-1100 Worldwide

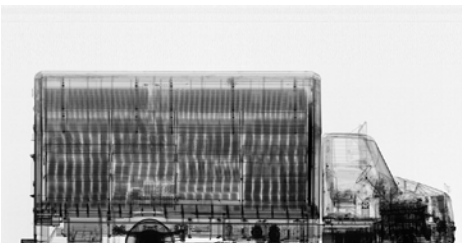
## X-RAY PERFORMANCE

|                        |   |
|------------------------|---|
| Performance:           | Tailored upon request   |
| Energy:                | 3MeV<br>Custom energy options upon request*   |
| Dose:                  | Matched to customer requirement<br>Dynamically adjustable option *<br>Low and high dose options available   |
| Repetition rate:       | 0 pps to 400 pps  |
| X-ray focal spot size: | Dose not exceed 2.0mm FWHM<br>in diameter   |
| Collimator/field size  | Customer specific, replaceable<br>Standard examples -<br>< 30 degree cone<br>Customized pyramid (ex: 30 degrees)<br>Customized fan (ex: 60 degrees) |
| Energy modes:          | - High energy mode<br>- Low energy mode<br>- High/Low energy mode, real-time *  |

## ENVIRONMENTAL

|                      |   |
|----------------------|---|
| Temperature:         |   |
| Operating:           | -20° to +40°C<br>-40° to +55°C with extended option                       |
| Storage:             | -40° to +60°C   |
| Humidity:            | Up to 90% relative humidity   |
| Shock and Vibration: | Designed and tested for mobile use<br>3g operational, 10g non-operational |

\*Patents pending



## MECHANICAL

|             |  |
|-------------|--|
| Dimensions: | Single cabinet 31.6" W x 66" H x 37.6" L<br>(Modular packaging available)  |
| Weight:     | 3MeV with shielding, standard -<br><1000 kg all-in-one single cabinet<br>No shielding option -<br><700 kg combined modules |
| Cooling:    | Liquid cooling, 30°C, 50l/min<br>self-contained ETM TCU (included)   |

## ELECTRICAL INTERFACE

|             |  |
|-------------|--|
| Interfaces: | Tailored to customer request<br>AC mains input, mains disconnect<br>Discrete control input<br>Remote Ethernet interface<br>Remote E-stop input<br>Trigger input<br>Ion pump power<br>Phase indicator lights<br>X-ray on light<br>Keylock safety switch<br>Coolant inlet/outlet |
|-------------|--|

## PRIMARY INPUT POWER

|                |   |
|----------------|---|
| Voltage input: | 220- 240 VAC (400VAC option)<br>3 phase; with neutral |
| Frequency:     | 50/60 Hz  |
| Consumption:   | Matched to customer requirement                       |

Note: Self-contained ETM TCU included with linac system for liquid cooling, matched to thermal load and environmental requirement.

Note: Specifications subject to change without notice.

Note: Please discuss specific tailoring requests with ETM

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