

# AMTEC

## Applied Manufacturing Technologies, Inc.

### **Nd: YAG Lasers**

YAG Lasers are for precise, permanent, TEM<sub>00</sub>, low order, multimode, special mode configurations, superior beam pointing stability, rugged industrial design, and upgradeable to different wavelengths. Its feature includes pulse widths between 60 ns and 300 ns, highest energy density at any M<sub>2</sub> value, most stable laser output, and highest Q-Switch commercially available.

YAG Lasers excel at ablation, annealing, bonding, chemical vapor deposition, deep engraving, dicing, fusing, kerfing, micro-welding, multi-layer micro-cutting, patter cutting, photo mask repair, scribing and scrubbing, slotting, surface removal, through-hole drilling, trepan drilling, trimming, via-hole drilling and much more.

YAG lasers are most often used as the base platform to produce different wavelengths when properly configured. The most versatile wavelength is [Infrared \(1064nm\)](#). This wavelength is used to mark a variety of materials including metals, ceramics, composites, and some plastics. Other individual wavelengths include [Green \(532nm\)](#), ideal for composites and some plastics, and [Ultraviolet \(355nm\)](#) ideal for glass and some plastics.

**YAG Lasers can be divided into the following categories:**

#### Flash-Lamp Lasers

#### Diode-Pump Lasers

#### Fiber Lasers



### **Samples of YAG Lasers**



### **Options and Accessories for YAG Lasers:**

- Integrated Beam Delivery Systems
- Fiber Optic Beam Delivery Systems
- Motorized Apertures
- Programmable Apertures
- Polarized Beam Splitter Modules
- Programmable Wave Plates
- Power Monitors
- Vision Systems/Crosshair Generators
- Scan Head with various lens sizes
- Delay Generators/Pulse Shapers
- Laser Aiming Systems
- Programmable Gas Assist
- Proportional Cooling Values
- Various Software Packages

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