

TYREX Series

Performance,
Precision &
Flexibility

Whether you are marking text, date codes, serial numbers, graphics, or a combination, TYREX Laser Systems can handle the job. TYREX 1064nm and 532nm lasers produce permanent, precision marks on:

- Semiconductors
- Most metals
- Plastics
- Glass
- Ceramics

TYREX is a 1064nm or 532nm laser system with excellent beam energy density. TYREX offers the power and versatility to mark ceramics, diamonds, silicon, steel, and other non-ferrous materials and alloys. TYREX's small footprint allows for bench top operation or integration into crowded production lines.



Vytech

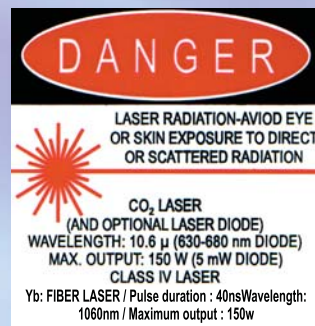
— VYTEK LASER MARKING SYSTEMS

- TYREX is a great choice for:
- Subsurface glass etching
 - Marking on transparent materials including glass and plastics
 - Surface structuring and trimming in semiconductor production
 - Cutting and scribing wafers
 - Cutting diamonds



TYREX offers these important benefits:

- Building Block Architecture Maximizes Flexibility
- Smallest Footprint of Available DPSS DYAG (532nm) and YAG (1064nm) Laser Markers - Minimizes Installation Space Requirement
- Economical Operation Due To Low Power Consumption
- Maintenance-Free Design Maximizes Productivity
- Choose Either a Vytek Turnkey Solution, or a User-installed Marking Sub-System



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System Specifications

Peak Pulse Power	80kW to 250kW, optional 500kW (depending upon laser configuration)	
Pulse Duration	10nm to 20ns (depending upon laser configuration)	
Pulse Repetition Rate	5Hz to 50Hz, optional 100Hz	
Laser Mode	TEM ₀₀ (M ² =1.0)	
Laser Type	Diode-pumped solid state (DPSS), Q-switched	
Power	110-240V, 50Hz or 60Hz, <500W	
Software	Powerful and intuitive Visual Laser Write software	
Cooling System	Air-cooled	
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Available Laser Configurations	Available Marking Fields	
Nd:YAG, first harmonic (1064nm)	70mm x 45mm (2.75" x 2.75")	
Nd:YAG, second harmonic (532nm, green)	120mm x 120mm (4.72" x 4.72")	
Nd:YLF (1047/1053nm)	180mm x 180mm (7" x 7")	
Nd:YVO ₄ (vanadate)	280mm x 280mm (11" x 11")	

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Vytek Engineering Study - The Proof is In the Pudding

Send sample workpieces to Vytek for testing and engineering review. Vytek will:

- Laser mark or engrave your workpiece for your review
- Comment on observed results
- Estimate processing speed and throughput
- Offer suggestions intended to optimize performance.

Give us a call at 978-342-9800, to initiate your Vytek Engineering Study, or email sales@vy-tek.com

Vytek
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TYREX Series

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