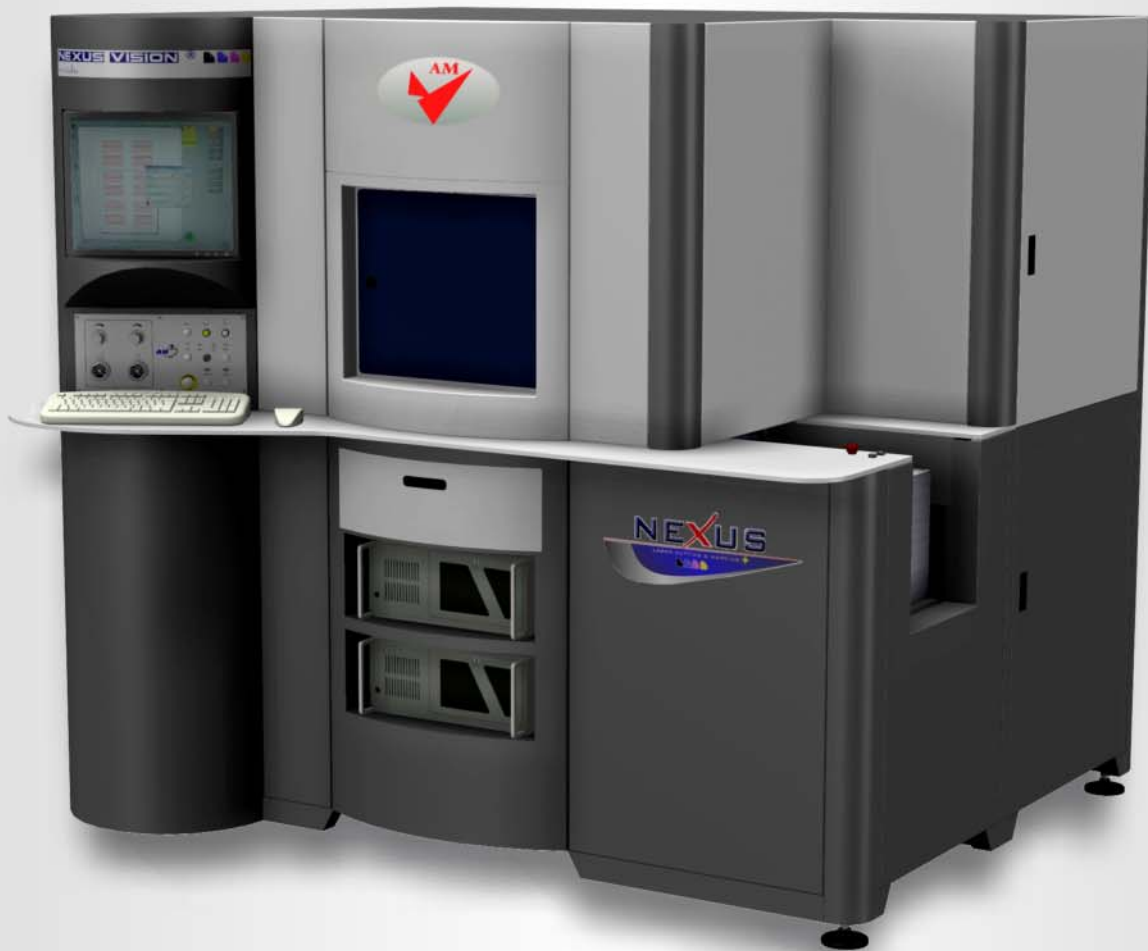


NEXUS

LASER CUTTING & MARKING



WWW.AM-LASER.COM

NEXUS is the most innovative **laser system for cutting and marking**, equipped with an automatic sheet holder from A5 to A3++ formats digitally printed, serigraphy, etc., intended to the label and graphic art sectors.

Unique in the world to be equipped with **NEXUS VISION**[®], artificial vision system with self-learning capacity of cut tracing, capable of adapting in few cents of seconds the cutting profile to the printing even without a register and generating automatically the file to be carried out.

NEXUS VISION[®] can generate the executable file by streamlining cutting line at few cents of distance from printing, making it with internal or external off-set to label edge, selecting different cutting profiles, annulling machine set-up times, erasing operator's mistakes and reducing to zero the number of copies necessary to trials.

NEXUS allows to execute in one step, on A3++ formats generated by digital printing and serigraphy machines, sophisticated and complex kiss-cutting geometries, cutting, marking, progressive codification, micro-perforation, perforation, unthinkable with current mechanical punching machines.

Thanks to the interaction of laser with a wideness of organic and synthetic materials, coatings and inks, special chromatic and 3D effects are being created, opening new application frontiers to labelling for beverage, food, pharmaceutical, fashion industries and so on.

Further elements at laser technology advantage are: an high operational flexibility, immediate fitting times, the possibility to work on customer's semi-finished materials constantly at obsolescence's risk, to change in real time texts, graphics, bar codes or data matrix, to insert anticounterfeiting elements.

TECHNICAL FEATURES

General

- | | | | |
|--------------------|--|---|----------------------------------|
| • Max sheet size: | A3++ (480 x 330 mm) [18.90" x 13.00"] | • Automatic feeder stack height: | 300 mm [12"] |
| • Max work area: | 480 x 320 mm [18.90" x 12.60"] | • Automatic stacker stack height: | 300 mm [12"] |
| • Min. sheet size: | A5 (210 x 148,5 mm) [8.27" x 5.85"] | • Self-learning tracing: | NEXUS VISION [®] |
| • Paper weight: | 120 – 300 g/m ² [0.025 – 0.062 lb/ft ²] | • Upper hood arrangement for exhausted smoke | |
| • Gripper margin: | 10 mm [0,4"] on the long side | • Connection arrangement for smoke and scrap exhaust on working table | |
| • Register: | ± 0,25 mm [± 0,0098"] | • Automatic operating | |

Laser source

- | | |
|------------------------------|------------------------------|
| • Source | CO ₂ |
| • Power (Watt): | 115 238 |
| • Peak power (Watt) | >230 >480 |
| • Frequency (kHz): | 0,1 – 50 |
| • Pumping: | RF discharge |
| • Cooling: | H ₂ O closed loop |
| • Estimate average lifetime: | 10.000 h |

Scanning head

- | | |
|------------------------------|----------------------------|
| • Focal (mm): | f=230 [9.05"] |
| • Work area (mm): | 200x200 [7.87"x7.87"] |
| • Spot diameter: | ≈ 200 μm [0.0078"] |
| • Operative speed (linear): | > 3m/sec [> 118 inch/sec] |
| • Operative speed (raster): | > 5 m/sec [> 197 inch/sec] |
| • Positioning speed: | > 5 m/sec [> 197 inch/sec] |
| • Aiming beam: diode pointer | 650 nm |

Options

- | | |
|---|--|
| • EOLO THC 400 activated filters smoke exhauster | • Capacity : 450 m ³ /h [265 ft ³ /min] |
| | • Power: 3 kWatt |
| | • Voltage : 400 VAC, 3ph 50/60 Hz, N, G |
| • AM-Drive-RCM Software | <i>AM Drive RCM software option enables by internet connection to activate a tele-assistance service. AM tele-assistance operative station can this way enter directly the system installed by client to carry out all system diagnosis activities and assistance to operator.</i> |

AM has the right to modify the features mentioned in own catalogues at any time and without any notice.



AM srl - Via J. Linussio, 1 - 33020 - AMARO (UD) ITALY
 Tel +39 0433 486254 fax +39 0433 486257
 www.am-laser.com - info@am-laser.it